nature

Index 2003

Volumes 421-426

Library
Pacific Islands Fisheries Science Center
Nat'l Marine Fisheries Service
Received 16 July 2004

Volume number	Issue number	Date of issue	Pagination
421	6918	2 January	1–96
	6919	9 January	97–194
	6920	16 January	195–298
	6921	23 January	299–458
	6922	30 January	459–558
	6923	6 February	559–674
	6924	13 February	675–768
	6925	20 February	769–874
	6926	27 February	875–974
422	6927	6 March	1–98
	6928	13 March	99–242
	6929	20 March	243–358
	6930	27 March	359–454
	6931	3 April	455–544
	6932	10 April	545–646
	6933	17 April	647–786
	6934	24 April	787–930
423	6935	1 May	1–100
	6936	8 May	101–206
	6937	15 May	207–366
	6938	22 May	367–464
	6939	29 May	465–570
	6940	5 June	571–668
	6941	12 June	669–786
	6942	19 June	787–902
	6943	26 June	903–1022
424	6944	3 July	1–112
	6945	10 July	113–236
	6946	17 July	237–354
	6947	24 July	355–472
	6948	31 July	473–598
	6949	7 August	599–708
	6950	14 August	709–860
	6951	21 August	861–980
	6952	28 August	981–1092
425	6953	4 September	1–106
	6954	11 September	107–222
	6955	18 September	223–328
	6956	25 September	329–434
	6957	2 October	435–544
	6958	9 October	545–644
	6959	16 October	645–748
	6960	23 October	749–884
	6961	30 October	885–990
426	6962	6 November	1–104
	6963	13 November	105–212
	6964	20 November	213–368
	6965	27 November	369–480
	6966	4 December	481–588
	6967	11 December	589–738
	6968	18/25 December	739–912

Nature® (ISSN 0028-0836) is published weekly on Thursday, except the last week in December, by Nature Publishing Group (The Macmillan Building, 4 Crinan Street, London N1 9XW). Registered as a newspaper at the British Post Office. Annual subscription for the Americas US$845 (institutional/corporate), US$159 (individual making personal payment). Canada residents please add 7% GST (No. 140911595). North and South American orders to: *Nature*, Subscription Dept, PO Box 5055, Brentwood, TN 37024-5055, USA. Other orders to *Nature*, Brunel Road, Basingstoke, Hants RG21 2XS, UK. Periodicals postage paid at New York, NY 10010-1707, and additional mailing offices. Authorization to photocopy material for internal or personal use, or internal or personal use of specific clients, is granted by *Nature* to libraries and others registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided the base fee of $12.00 an article (or $2.00 a page) is paid direct to CCC, 222 Rosewood Drive, Danvers, MA 01923, USA. Identification code for *Nature*: 0028-0836/03 $12.00+$2.00. US Postmaster send address changes to: Nature, PO Box 5055, Brentwood, TN 37024-5055; CPC PUB AGREEMENT #40032744. Published in Japan by Nature Japan K.K., MG Ichigaya Bldg. 5F, 19-1 Haraikatamachi,Shinjuku-ku, Tokyo 162-0841, Japan. © 2004 Nature Publishing Group.

Nature author index for volumes 421–426 2003

Details of volume and issue numbers, dates and pagination can be found on facing page

Aalto, R. Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation (*with* Maurice-Bourgoin, L, Dunne, T, Montgomery, D R, Nittrouer, C A, Guyot, J-L), *Letter to Nature*, **425**, 493
Aarnisalo, P. *See under* Wang, Z, **423**, 555
Aas, P A. Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA (*with* Otterlei, M, Falnes, P O, Vågbø, C B, Skorpen, F, Akbari, M, Sundheim, O, Bjørås, M, Slupphaug, G, Seeberg, E, Krokan, H E), *Letter to Nature*, **421**, 859
Abbasi, N. *See under* Heilig, R, **421**, 601
Abbondanzieri, E A. *See under* Shaevitz, J W, **426**, 684
Abbott, A. Ethics panel attacks environment book, *News*, **421**, 201
  Italians riled by science reforms, *News*, **421**, 465
  Visual zoology, *Science in culture*, **421**, 580
  DNA study deepens rift over Iceland's genetic heritage, *News*, **421**, 678
  Social scientists call for abolition of dishonesty committee, *News*, **421**, 681
  Danish biotech centre faces axe, *News*, **422**, 105
  Chicken flu races through Dutch poultry farms, *News*, **422**, 247
  Axeing of website article sparks row at Max Planck, *News*, **422**, 460
  Time for an Italian renaissance?, *News feature*, **422**, 467
  University faces up to wartime use of slaves, *News*, **422**, 792
  Biologists seek to head off future sources of infection (*with* Cyranoski, D), *News*, **423**, 3
  See under Cyranoski, D, **423**, 3, **423**, 467
  Human fatality adds fresh impetus to fight against bird flu, *News*, **423**, 5
  US Army joins hunt for SARS drug, *News*, **423**, 103
  First past the post, *News feature*, **423**, 114
  Behind the wall, *Science in culture*, **423**, 226
  Researchers divided over ethics of a ban on cloning, *News*, **423**, 373
  Art: Science in site, *Book review*, **423**, 385
  Anthropologists cast doubt on human DNA evidence, *News*, **423**, 468
  See under Knight, J, **423**, 471
  Pet theory comes to the fore in fight against SARS, *News*, **423**, 576
  Philology: The pages of history, *Book review*, **423**, 588
  China and Germany join forces over SARS, *News*, **423**, 791
  British panel bans use of antidepressant to treat children, *News*, **423**, 792
  Exhibition: The medicine man's museum, *Book review*, **423**, 805
  Europe split over move to loosen stem-cell regulations, *News*, **424**, 117
  Survey reveals mixed feelings over scientific misconduct (*with* Graf, P), *News*, **424**, 117
  Are we prepared for the next viral threat?, *News feature*, **424**, 123
  Are drugs for SARS on the horizon?, *News feature*, **424**, 125
  See under Hillier, L W, **424**, 157
  Preliminary inquiry clears brain scientist of fraud allegation, *News*, **424**, 243
  A new atlas of the brain, *News feature*, **424**, 249
  Online database: Island investigations, *Book review*, **424**, 491
  Czech stem-cell work heightens calls for EU ruling, *News*, **424**, 602
  Biology's new dimension, *News feature*, **424**, 870
  Quest for SARS source gathers pace in bid to thwart resurgence, *News*, **424**, 983
  Retraction ends furore over cancer vaccine, *News*, **425**, 4
  Sculpture: Breaking with tradition, *Book review*, **425**, 19
  Brain protein project enlists mice in 'dry run', *News*, **425**, 110
  Unnatural causes, *Exhibition review*, **425**, 347
  Research council plan for Europe gets up steam, *News*, **425**, 440
  With your genes? Take one of these, three times a day, *News feature*, **425**, 760
  Force of nature, *Exhibition review*, **426**, 19
  Italy's proposal for technology institute riles researchers, *News*, **426**, 111
  Whistles blow in vain on bad practice in German research, *News*, **426**, 218
  Europe eyes merit-based agency, *News*, **426**, 487
  Europe dithers over regulations for stem-cell research, *News*, **426**, 595
  Membrane proteins: Channel voyager makes waves, *News feature*, **426**, 755
  Neuroscience: Genomics on the brain, *News feature*, **426**, 757
Abdel-Jawad, M. *See under* Hussey, N E, **425**, 814
Abdul-Quader, A S. *See under* Panda, S, **423**, 685
Abe, E. Direct observation of a local thermal vibration anomaly in a quasicrystal (*with* Pennycook, S J, Tsai, A P), *Letter to Nature*, **421**, 347
Abe, F. *See under* Taneike, M, **424**, 294
Aberg, Y. *See under* Liljeros, F, **423**, 606
Aberle, N. *See under* Witte, U, **424**, 763
Abernethy, K A. *See under* Walsh, P D, **422**, 611
Abler, W L. What Darwin knew, *Correspondence*, **426**, 759
Abmayr, S M. *See under* Presgraves, D C, **423**, 715
Abraham, F F. *See under* Buehler, M J, **426**, 141
Abraham, J L. *See under* Neumann, C A, **424**, 561
Abraham, W-R. *See under* Witte, U, **424**, 763
Abrams, D M. Linguistics: Modelling the dynamics of language death (*with* Strogatz, S H), *Brief communication*, **424**, 900
Abrikosov, I A. *See under* Dubrovinsky, L, **422**, 58
Acar, M H. *See under* Gonzalez-Leon, J A, **426**, 424
Accili, D. *See under* Puigserver, P, **423**, 550
  See under Nef, S, **426**, 291
Acevedo-Bolton, G. *See under* Hove, J R, **421**, 172
Acevedo-Whitehouse, K. Disease susceptibility in California sea lions (*with* Gulland, F, Greig, D, Amos, W), *Brief communication*, **422**, 35
Acharya, K R. *See under* Natesh, R, **421**, 551
Achiba, Y. *See under* Ishii, H, **426**, 540
Achtzehn, T. *See under* Duft, D, **421**, 128
Ackerman, B. *See under* Palazzo, A, **421**, 230
Acosta, J. *See under* Sucre, M G, **422**, 257
Acosta, N. *See under* Gaunt, M W, **421**, 936
Acuña-González, J. *See under* Dalsgaard, T, **422**, 606
Adam, D. British chemists warned of impending stagnation, *News*, **421**, 100
  Comet mission hangs in the balance (*with* Butler, D), *News*, **421**, 102
  The times, they are a-changin', *News feature*, **421**, 207
  Transgenic crop trial's gene flow turns weeds into wimps, *News*, **421**, 462
  Science had rare leading role in ill-started shuttle mission, *News*, **421**, 562
  Out of the kitchen, *News feature*, **421**, 571
  London gears up for road congestion charge, *News*, **421**, 679
  Paper retracted as co-author admits forgery, *News*, **421**, 775
  Windfall spurs rare Israeli–Palestinian research effort, *News*, **421**, 777
  'Revolutionary' telescope gets green light, *News*, **422**, 4
  Back from the dead, *News feature*, **423**, 13
  Under new management, *News feature*, **423**, 379
Adami, C. *See under* Lenski, R E, **423**, 139
Adamic, L. Six Degrees: The Science of a Connected Age (*by* Watts, D J), *Book review*, **422**, 265
Adams, G B. *See under* Calvi, L M, **425**, 841
Adams, J B. Proxy evidence of an El Niño-lke response to volcanic forcing (*with* Mann, M E, Ammann, C M), *Letter to Nature*, **426**, 274
Adams, J D. *See under* Pinnaduwage, L A, **425**, 474
Adams, K L. *See under* Bergthorsson, U, **424**, 197
Adler, F R. *See under* McCulloh, K A, **421**, 939
Adrian, L. *See under* Bunge, M, **421**, 357
Aebersold, R. Constellations in a cellular universe, *Commentary*, **422**, 115
  Mass spectrometry-based proteomics (*with* Mann, M), *Insight review article*, **422**, 198
Aebischer, N J. Ecology: Hunting and fox numbers in the United Kingdom (*with* Baker, S E, Johnson, P J, Macdonald, D W, Reynolds, J C), *Brief communication*, **423**, 400
Aeppli, G. *See under* Ghosh, S, **425**, 48
Aert, R. *See under* Wood, V, **421**, 94
Affar, E B. *See under* Shi, Y, **422**, 735
Affaticati, P. *See under* Treiner, E, **422**, 164, 423, 1018
Agarwal, R. *See under* Duan, X, **421**, 241
Agathon, A. The molecular nature of the zebrafish tail organizer (*with* Thisse, C, Thisse, B), *Letter to Nature*, **424**, 448
Ager, A. Inflammation: Border crossings, *News and views*, **421**, 703
Aggarwal, A K. *See under* Li, X, **426**, 247
Agmon, N. Middle East: university funding for Palestinians, *Correspondence*, **426**, 227
Agosti, D. Switzerland's role as a hotspot of type specimens, *Correspondence*, **421**, 889
  Pheidole in the New World: A Dominant (*by* Wilson, E O), *Book review*, **424**, 727
Agrawal, A. Impairment of dendritic cells and adaptive immunity by anthrax lethal toxin (*with* Lingappa, J, Leppla, S H, Agrawal, S, Jabbar, A, Quinn, C, Pulendran, B), *Letter to Nature*, **424**, 329
Agrawal, D. *See under* Altfeld, M, **423**, 461
Agrawal, S. *See under* Agrawal, A, **424**, 329
Aguzzi, A. Prion diseases: Cannibals and garbage piles (*with* Heikenwalder, M), *News and views*, **423**, 127
Ahearn, I M. *See under* Bivona, T G, **424**, 694
Ahigren, N A. *See under* Rocap, G, **424**, 1042
Ahlberg, P E. *See under* Clack, J A, **425**, 65
Ahmadian, G. *See under* Nong, Y, **422**, 302
Ahmed, R. *See under* Crotty, S, **421**, 282
Ahn, C. *See under* Lee, Y, **425**, 415
Ahn, C H. Electric field effect in correlated oxide systems (*with* Triscone, J-M, Mannhart, J), *Progress article*, **424**, 1015
Ahringer, J. *See under* Kamath, R S, **421**, 231
  See under Ashrafi, K, **421**, 268
  See under Murphy, C T, **424**, 277
Ahuja, R. *See under* Belonoshko, A B, **424**, 1032
Aiach, N. *See under* Heilig, R, **421**, 601
Aida, T. *See under* Ishii, D, **423**, 628
Ailles, L. *See under* Reya, T, **423**, 409
Ainley, D G. The Adelie Penguin: Bellwether of Climate Change, *Book review by* Le Maho, Y, Gremillet, D, **422**, 264
Ainscough, R. *See under* Mungall, A J, **425**, 805
Aizenberg, J. *See under* Sundar, V C, **424**, 899
  See under Megens, M, **424**, 1014
Ajami, D. Synthesis of a Möbius aromatic hydrocarbon (*with* Oeckler, O, Simon, A, Herges, R), *Letter to Nature*, **426**, 819
Ajayan, P M. *See under* Modi, A, **424**, 171
Akbari, M. *See under* Aas, P A, **421**, 859
Akhter, N. *See under* Thomas, J W, **424**, 788
Akkari, Y. *See under* Wang, X, **422**, 897
Al-Abed, Y. *See under* Wang, H, **421**, 384
Al-Dhalimy, M. *See under* Wang, X, **422**, 897
Al-Khalili, A. *See under* McCall, B J, **422**, 500
Al-Khalili, J. Quantum: A Guide for the Perplexed, *Book review by* Wilczek, F, **424**, 997
Al-Shamkhani, A. *See under* Diebold, S S, **424**, 324
Alberts, B. DNA replication and recombination, *Feature*, **421**, 431
Alberts, S C. *See under* Buchan, J C, **425**, 179
Alder, K. The Measure of All Things: The Seven-Year Odyssey and Hidden Error that Transformed the World, *Book review by* Pyenson, L, **421**, 211
Aldhous, P. The world's forgotten crisis, *News feature*, **422**, 251
  Rocky Mountain high, *News feature*, **423**, 915
  Time to choose, *News feature*, **425**, 655
Alerstam, T. The lobster navigators, *News and views*, **421**, 27
Alex, L A. *See under* Galagan, J E, **422**, 859
Alexander, C. A questioning of timing, *News and views*, **423**, 691
Alexandre, D. *See under* de Joussineau, C, **426**, 555
Alexopoulou, L. *See under* Diebold, S S, **424**, 324
Alfè, D. *See under* Vocadlo, L, **424**, 536
Alff, L. A hidden pseudogap under the 'dome' of superconductivity in electron-doped high-temperature superconductors (*with* Krockenberger, Y, Welter, B, Schonecke, M, Gross, R, Manske, D, Naito, M), *Letter to Nature*, **422**, 698
Alford, M H. Redistribution of energy available for ocean mixing by long-range propagation of internal waves, *Letter to Nature*, **423**, 159
Ali, J. *See under* Skaletsky, H, **423**, 825
  See under Hillier, L W, **424**, 157
Ali, M E. *See under* Mohler, P J, **421**, 634
Alin, S R. *See under* O'Reilly, C M, **424**, 766
Allahabadia, A. *See under* Ueda, H, **423**, 506
Allan, D C. *See under* Smith, C M, **424**, 657
Allan, N L. *See under* Brooker, R A, **423**, 738
Allaway, D. *See under* Lodwig, E M, **422**, 722
Allen, A P. *See under* Enquist, B J, **423**, 639
Allen, A R. Possible or probable?, *Concepts*, **425**, 242
Allen, E. *See under* Palatnik, J F, **425**, 257
Allen, E E. *See under* Palenik, B, **424**, 1037
Allen, M. Liability for climate change, *Commentary*, **421**, 891
Allen, T M. *See under* Altfeld, M, **423**, 461
Alley, R B. Stabilizing feedbacks in glacier-bed erosion (*with* Lawson, D E, Larson, G J, Evenson, E B, Baker, G S), *Letter to Nature*, **424**, 758
Allis, C D. *See under* Fischle, W, **425**, 475
Allred, J C. *See under* Kominis, I K, **422**, 596
Allsop, D J. Changing sex at the same relative body size (*with* West, S A), *Brief communication*, **425**, 783
Almeida, J P. *See under* Mungall, A J, **425**, 805
Almogi-Labin, A. *See under* Siddall, M, **423**, 853
Alnemri, E S. *See under* Jones, J M, **425**, 721
Alonso, D O V. *See under* Mayor, U, **421**, 863
Alonso, J. *See under* Strand, Å, **421**, 79
Alt, F W. *See under* Wong, K-K, **421**, 643
  See under Chaudhuri, J, **422**, 726
Altfeld, M. Addendum: HIV-1 superinfection despite broad $CD8^+$ T-cell responses containing replication of the primary virus (*with*

Allen, T M, Yu, X G, Johnston, M N, Agrawal, D, Korber, B T, Montefiori, D C, O'Connor, D H, Davis, B T, Lee, P K, Maier, E L, Harlow, J, Goulder, P J R, Brander, C, Rosenberg, E S, Walker, B D), *Letter to Nature*, **423**, 461
Altmann, J. *See under* Buchan, J C, **425**, 179
Altomonte, J. *See under* Puigserver, P, **423**, 550
Alvazian, D. *See under* Sivars, U, **425**, 856
Amadio, S. *See under* Pluchino, S, **422**, 688
Amann, R. *See under* Kruger, M, **426**, 878
Amanullah, A. Cell signalling: Cell survival and a Gadd-45-factor deficiency (*with* Azam, N, Balliet, A, Hollander, C, Hoffman, B, Fornace Jr, A, Liebermann, D), *Brief communication*, **424**, 741
Amaral, L A N. *See under* Liljeros, F, **423**, 606
Ambrose, K D. *See under* Mungall, A J, **425**, 805
Amella, C A. *See under* Wang, H, **421**, 384
Amemiya, S. *See under* Nakano, H, **421**, 158
Amigorena, S. *See under* Guermonprez, P, **425**, 397
Amit, D. Why should we help politicians to wage war?, *Correspondence*, **423**, 683
Ammann, C M. *See under* Adams, J B, **426**, 274
Amos, W. *See under* Acevedo-Whitehouse, K, **422**, 35
Andersen, J N. *See under* Salmeen, A, **423**, 769
Andersen, J S. Proteomic characterization of the human centrosome by protein correlation profiling (*with* Wilkinson, C J, Mayor, T, Mortensen, P, Nigg, E A, Mann, M), *Letter to Nature*, **426**, 570
Andersen, M I. *See under* Hjorth, J, **423**, 847
Andersen, R M. Nicotinamide and *PNC1* govern lifespan extension by calorie restriction in *Saccharomyces cerevisiae* (*with* Bitterman, K J, Wood, J G, Medvedik, O, Sinclair, D A), *Letter to Nature*, **423**, 181
Anderson, D M. *See under* Gupta, A K, **421**, 354
Anderson, I. *See under* Ivanova, N, **423**, 87
Anderson, K V. *See under* Huangfu, D, **426**, 83
Anderson, L K. *See under* Han, S, **425**, 196
Anderson, P C. *See under* Lamarre, D, **426**, 186, **426**, 314
Anderson, P J. *See under* Friedrich, R, **425**, 535
Anderson, P W. Cold wars: A History of Superconductivity (*by* Matricon, J, Waysand, G), *Book review*, **426**, 17
Anderson, R M. *See under* Ferguson, N M, **425**, 681
Anderson, S O. Protecting the Ozone Layer: The United Nations History (*with* Sarma, K M), *Book review by* Herrick, C, **422**, 664
Andersson, G. *See under* Van Laere, A-S, **425**, 832
Andersson, J. *See under* Ruban, A V, **421**, 648
Andersson, L. *See under* Van Laere, A-S, **425**, 832
Andersson, M. Behavioural ecology: Coots count, *News and views*, **422**, 483
See under Blomqvist, D, **422**, 833
Andino, R. *See under* Gitlin, L, **423**, 197
Ando, Y. *See under* Lavrov, A N, **421**, 230
See under Balakirev, F F, **424**, 912
Andreesen, J R. *See under* Bunge, M, **421**, 357
Andrews, R D. *See under* Darveau, C A, **421**, 714
Andrews, S. *See under* Hillier, L W, **424**, 157
Andrews, T D. *See under* Mungall, A J, **425**, 805
Anest, V. A nucleosomal function for IkB kinase-α in NF-κB-dependent gene expression (*with* Hanson, J L, Cogswell, P C, Steinbrecher, K A, Strahl, B D, Baldwin, A S), *Letter to Nature*, **423**, 659
Angel, R. Space: telescopes reveal the way forward, *Correspondence*, **422**, 373
Angert, I. *See under* Holmes, K C, **425**, 423
Angove, H C. *See under* Williams, P A, **424**, 464
Anguille, C. *See under* de Joussineau, C, **426**, 555
Aniere, F. *See under* Heilig, R, **421**, 601
Annis, J. *See under* Inada, N, **426**, 810
Ansley, S J. Basal body dysfunction is a likely cause of pleiotropic Bardet–Biedl syndrome (*with* Badano, J L, Blacque, O E, Hill, J, Hoskins, B E, Leitch, C C, Kim, J C, Ross, A J, Eichers, E R, Teslovich, T M, Mah, A K, Johnsen, R C, Cavender, J C, Lewis, R A, Leroux, M R, Beales, P L, Katsanis, N), *Letter to Nature*, **425**, 628
Anstee, D. *See under* White, A R, **422**, 80
Anthouard, V. *See under* Heilig, R, **421**, 601
Antia, R. The role of evolutionary in the emergence of infectious diseases (*with* Regoes, R R, Koella, J C, Bergstrom, C T), *Letter to Nature*, **426**, 658
Antoniu, B. *See under* Thayer, S P, **425**, 851
Antonny, B. *See under* Bigay, J, **426**, 563
Apesteguia, S. Large Cretaceous sphenodontian from Patagonia provides insight into lepidosaur evolution in Gondwana (*with* Novas, F E), *Letter to Nature*, **425**, 609
Apps, D K. *See under* Duncan, R R, **422**, 176
Araki, T. *See under* Finne, A P, **424**, 1022
Aramayo, R. *See under* Galagan, J E, **422**, 859
Aravanis, A M. Single synaptic vesicles fusing transiently and successively without loss of identity (*with* Pyle, J L, Tsien, R W), *Letter to Nature*, **423**, 643
Arbelo, M. *See under* Jepson, P D, **425**, 575
Archer, D B. *See under* Dumoulin, M, **424**, 783
Archibald, A L. *See under* Van Laere, A-S, **425**, 832
Arculus, R J. *See under* Sun, W, **422**, 294
Arellano, S. *See under* Rocap, G, **424**, 1042
Argyriou, D N. *See under* Kang, H J, **423**, 522, **426**, 140
Ariando. *See under* Hilgenkamp, H, **422**, 50
Arima, T. *See under* Kimura, T, **426**, 55
Arkin, A P. *See under* Rao, C V, **421**, 190
Armand, M. *See under* Hammami, A, **424**, 635
Armani, D K. Ultra-high-*Q* toroid microcavity on a chip (*with* Kippenberg, T J, Spillane, S M, Vahala, K J), *Letter to Nature*, **421**, 925
Armstrong, J. *See under* Wood, V, **421**, 94
Armstrong, K M. *See under* Moore, T, **421**, 370
Armstrong, T P. *See under* Krimigis, S M, **426**, 45
Arnheim, L. Assisted suicide for B cells, *News and views*, **423**, 238
Arnold, D H. Motion-induced spatial conflict (*with* Johnston, A), *Letter to Nature*, **425**, 181
Arnold, J. Revelations from a bread mould (*with* Hilton, N), *News and views*, **422**, 821
Arnold, T H. *See under* Smith, G F, **422**, 375
Arnqvist, G. Reversal of sex roles in nuptial feeding (*with* Jones, T M, Elgar, M A), *Brief communication*, **424**, 387
Sex Wars: Genes, Bacteria, and Biased Sex Ratios (*by* Majerus, M E N), *Book review*, **424**, 616
Aronov, D. *See under* Cossart, R, **423**, 283
Artemleva, N A. *See under* Bland, P A, **424**, 288
Artiguenave, F. *See under* Heilig, R, **421**, 601
Arunachalam, S C. *See under* Zhang, H, **424**, 94
Arushanov, E. *See under* Schön, J H, **422**, 92
Arvanitidis, J. Temperature-induced valence transition and associated lattice collapse in samarium fulleride (*with* Papagelis, K, Margadonna, S, Prassides, K, Fitch, A N), *Letter to Nature*, **425**, 599
Asami, T. *See under* Strand, Å, **421**, 79
See under Ueshima, R, **425**, 679
Asfaw, B. *See under* White, T D, **423**, 742
See under Clark, J D, **423**, 747
See under Hart, W K, **426**, 622
Ashcom, J B. *See under* Tong, L, **426**, 816
Ashikari, T. *See under* Katou, Y, **424**, 1078
Ashoori, R. Solid-state physics: Drawing quantum circuitry, *News and views*, **424**, 730
Ashrafi, K. Genome-wide RNAi analysis of *Caenorhabditis elegans* fat regulatory genes (*with* Chang, F Y, Watts, J L, Fraser, A G, Kamath, R S, Ahringer, J, Ruvkun, G), *Letter to Nature*, **421**, 268
Ashurst, J L. *See under* Mungall, A J, **425**, 805
Ashwell, R I S. *See under* Mungall, A J, **425**, 805
Ashwin, P. Nonlinear dynamics: Synchronization from chaos, *News and views*, **422**, 384
Ashworth, A. *See under* Trompouki, E, **424**, 793
Ashworth, A C. A fly in the biogeographic ointment (*with* Thompson, F C), *Brief communication*, **423**, 135
Asimow, P D. The importance of water to oceanic mantle melting regimes (*with* Langmuir, C H), *Article*, **421**, 815
Earth science: A slice of history, *News and views*, **423**, 491
Askjaer, P. *See under* Walther, T C, **424**, 689
Aspelmeyer, M. *See under* Pan, J-W, **421**, 721
Assmann, S M. *See under* Coursol, S, **423**, 651
Astaflev, O. *See under* Pashkin, Yu A, **421**, 823
Astakhov, S A. Chaos-assisted capture of irregular moons (*with* Burbanks, A D, Wiggins, S, Farrelly, D), *Letter to Nature*, **423**, 264
Ates, A. *See under* Elliot, J L, **424**, 165
Atkins, E. Biomaterials: Silk's secrets, *News and views*, **424**, 1010
Atkins, P. Galileo's Finger, *Book review by* Wilczek, F, **422**, 377
Atkinson, J P. *See under* Kemper, C, **421**, 388
Atkinson, Q D. *See under* Gray, R D, **426**, 435
Atlas, E. *See under* Rahn, T, **424**, 918
Atou, T. *See under* Murakami, Y, **423**, 965
Attia, Y. *See under* Seiffert, E R, **422**, 421
Attler, M. *See under* Lingel, A, **426**, 465
Atwater, B F. *See under* Nanayama, F, **424**, 660
Au, J. *See under* Chen, Y, **423**, 136
Au, W W L. Automatic gain control in the echolocation system of dolphins (*with* Benoit-Bird, K J), *Letter to Nature*, **423**, 861
Aufderheide, A C. The Scientific Study of Mummies, *Book review by* Wisseman, S U, **423**, 18
Aungst, J L. Centre–surround inhibition among olfactory bulb glomeruli (*with* Heyward, P M, Puche, A C, Karnup, S V, Hayar, A, Szabo, G, Shipley, M T), *Article*, **426**, 623
Avanzini, M. *See under* Mietto, P, **422**, 133
Avdeev, S. *See under* Casolino, M, **422**, 680
Averin, D V. *See under* Pashkin, Yu A, **421**, 823
Aves, S J. *See under* Wood, V, **421**, 94
Awmack, C S. *See under* Percy, K E, **421**, 190
Axelrod, J D. *See under* Ma, D, **421**, 543
Aydin, K. *See under* Cubukcu, E, **423**, 604
Ayele, K. *See under* Thomas, J W, **424**, 788
Ayliffe, M A. *See under* Huang, C Y, **422**, 72
Azam, N. *See under* Amanullah, A, **424**, 741

Baan, W A. *See under* Klöckner, H-R, **421**, 821
Babbage, A K. *See under* Mungall, A J, **425**, 805
Babcock, B A. *See under* Elliot, J L, **424**, 165
Baccus, S A. *See under* Ölveczky, B P, **423**, 401
Bachand, K. *See under* Coull, J A M, **424**, 938
Bachoo, R M. *See under* Wong, K-K, **421**, 643
Backus, S. *See under* Paul, A, **421**, 51
Badano, J L. *See under* Ansley, S J, **425**, 628
Badurek, G. *See under* Hasegawa, Y, **425**, 45
Bae, S C. *See under* Granick, S, **425**, 467
Baertsch, R A. *See under* Hillier, L W, **424**, 157
Baez, J. Quantum gravity: The quantum of area?, *News and views*, **421**, 702
Bagguley, C L. *See under* Mungall, A J, **425**, 805
Bahcall, N A. *See under* Inada, N, **426**, 810
Bahn, P. Portrait of the Artist as a Child: The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context (*by* Zilhao, J, Trinkaus, E), *Book review*, **424**, 490
Bahram, S. *See under* Treiner, E, **422**, 164, 423, 1018
Bai, J. *See under* Wang, C-T, **424**, 943
Bailey, J. *See under* Mungall, A J, **425**, 805
Bailey, J A. *See under* Hillier, L W, **424**, 157
Bailey, M. *See under* Lamarre, D, **426**, 314
Bailey, S. *See under* Mann, N H, **424**, 741
Baillie, L W. *See under* Read, T D, **423**, 81
Bainbridge, D. The X in Sex: How the Chromosome Controls our Lives, *Book review by* Marshall Graves, J A, **423**, 223
Bajcsy, M. Stationary pulses of light in an atomic medium (*with* Zibrov, A S, Lukin, M D), *Letter to Nature*, **426**, 638
Baker, A. *See under* Genty, D, **421**, 833
Baker, E T. *See under* Edmonds, H N, **421**, 252
Baker, G S. *See under* Alley, R B, **424**, 758
Baker, J. Astrophysics: Planetary orbits to the time warp, *News and views*, **425**, 34
Astrophysics: Dark interactions, *News and views*, **425**, 364
Astrophysics: Lost lithium, *News and views*, **425**, 472
Baker, J A. *See under* Bizzarro, M, **421**, 931
Baker, J R. *See under* Jepson, P D, **425**, 575
Baker, P J. Plant ecology: Coexistence of tropical tree species (*with* Wilson, J S), *Brief communication*, **422**, 581
Reply: Ecology: Hunting and fox numbers in the United Kingdom (*with* Harris, S, Webbon, C C), *Brief communication*, **423**, 400
Baker, P S. Natural decaf could brew trouble for farmers, *Correspondence*, **424**, 613
Baker, S. *See under* Wood, V, **421**, 94
Baker, S E. *See under* Aebischer, N J, **423**, 400
Baker, V R. Planetary science: Icy Martian mysteries, *News and views*, **426**, 779
Bakkenist, C J. DNA damage activates ATM through intermolecular autophosphorylation (*with* Kastan, M B), *Article*, **421**, 499
Bala, A D S. Prediction of auditory spatial acuity from neural images on the owl's auditory space map (*with* Spitzer, M W, Takahashi, T T), *Letter to Nature*, **424**, 771
Balagopalan, L. *See under* Presgraves, D C, **423**, 715
Balakirev, F F. Signature of optimal doping in Hall-effect measurements on a high-temperature superconductor (*with* Betts, J B, Migliori, A, Ono, S, Ando, Y, Boebinger, G S), *Letter to Nature*, **424**, 912
Balakrishnan, L. *See under* Venter, H, **426**, 866
Baldwin, A S. *See under* Anest, V, **423**, 659
Baldwin, L A. *See under* Calabrese, E J, **421**, 691
Balescu, R. Obituary: Ilya Prigogine (1917–2003), *News and views*, **424**, 30
Balicas, L. *See under* Hussey, N E, **425**, 814
Ball, M A. *See under* Parker, G A, **425**, 480
Ball, P. Quantum physics: The entangling effects of motion, *News and views*, **421**, 228
Granular materials: Nut theory gets a shakedown, *News and views*, **421**, 331
Portrait of a molecule, *Feature*, **421**, 421
Optical physics: Voltage manoeuvres on a microlens, *News and views*, **421**, 493
Fluid dynamics: Turbulence made hard, *News and views*, **421**, 597
Particle physics: Photon charge reaches new limits, *News and views*, **421**, 709
To the heart of glass, *News feature*, **421**, 783
Biophysics: Unzipping your genes, *News and views*, **421**, 804
Physicists fail to find saving grace for falsified research, *News*, **421**, 878
Imaging: Nanoprobes on the blink, *News and views*, **421**, 907
Soft matter: Paste inside, *News and views*, **421**, 907
Optics: Fibres tune in with fluid plug, *News and views*, **422**, 132
Cosmology: The helium legacy of dead stars, *News and views*, **422**, 275
Surface chemistry: Riddle of the stones, *News and views*, **422**, 275
Nanoelectronics: Silicon springs leaks, *News and views*, **422**, 393
Inorganic chemistry: Molecules lend a hand, *News and views*, **422**, 487
Nonlinear optics: Braking at room temperature, *News and views*, **422**, 487
Nanotechnology: Dendritic lasers, *News and views*, **422**, 577
Physical chemistry: Salts leave fingerprints in acid, *News and views*, **422**, 577
Archaeology: Tall story, *News and views*, **422**, 677
Microelectronics: Clean-up for copper chips, *News and views*, **422**, 677
Astrobiology: A salty life on Europa?, *News and views*, **422**, 829
Metallurgy: Bend it, shape it, *News and views*, **422**, 829
Chemical physics: How to keep dry in water, *News and views*, **423**, 25
Electrochemistry: Magnesium power, *News and views*, **423**, 30
Microscopy: Nanoscience in ribbons, *News and views*, **423**, 134
Biomaterials: Size matters, *News and views*, **423**, 238
How to crack a liquid, *News and views*, **423**, 395
Microfluidics: DNA microarrays get the shakers, *News and views*, **423**, 496
Photonics: Light gets a useful shock, *News and views*, **423**, 598
Quantum Chemistry: At full stretch, *News and views*, **423**, 598
Acoustics: Guitar feedback tamed, *News and views*, **423**, 702
Chemistry: Krypton goes organic, *News and views*, **423**, 820
Astrophysics: Star spins flat out, *News and views*, **423**, 935
Atmospheric chemistry: Water molecules pair in air, *News and views*, **424**, 31
Biophysics: Symmetry by design, *News and views*, **424**, 31
Nanotechnology: Nanotubes get sorted, *News and views*, **424**, 143
Quantum physics: How cold can you go?, *News and views*, **424**, 143

Acoustics: New bells ring sweeter, *News and views*, **424**, 265
Microscopy: High-speed movies in miniature, *News and views*, **424**, 265
Optics: Laser light sees through clouds, *News and views*, **424**, 385
Photonics: Drawing a line in silicon, *News and views*, **424**, 385
Cosmology: Support for dark energy, *News and views*, **424**, 507
Biomaterials: Zinc hardens worm jaws, *News and views*, **424**, 630
Physical Chemistry: Stronger hydrogen bonds, *News and views*, **424**, 630
Astrophysics: Pulsar pinpointed, *News and views*, **424**, 740
Materials chemistry: Diamonds from dry ice, *News and views*, **424**, 740
Nonlinear physics: A brownian motor, *News and views*, **424**, 898
High-energy: Flashes from planet smashes, *News and views*, **424**, 1011
Microphotonics: Tiny laser notches up success, *News and views*, **425**, 143
Atomic physics: Squishy ball lightning, *News and views*, **425**, 253
Biophysics: Cell mail delivered by light, *News and views*, **425**, 364
Environmental science: Lead, leaching and landfill, *News and views*, **425**, 364
Plate tectonics: America claims the Far East, *News and views*, **425**, 472
Mineralogy: Oresome microbes, *News and views*, **425**, 573
Quantum physics: How to make a Schrodinger's cat, *News and views*, **425**, 573
Economics prize for duo who resolved random results, *News*, **425**, 651
Fluid dynamics: Jet-bending explained, *News and views*, **425**, 678
Glaciology: Thin ice, *News and views*, **426**, 28
Quantum physics: A light touch on quantum strangeness, *News and views*, **426**, 136
Atmospheric chemistry: Iron injection, *News and views*, **426**, 242
Organic electronics: Carbon makes contact, *News and views*, **426**, 242
Optics: X-ray microscopy lacks focus, *News and views*, **426**, 402
Polymer chemistry: Plastic wrap for nanocircuits, *News and views*, **426**, 402
Optics: Colourful 'black holes', *News and views*, **426**, 514
Metallurgy: Cost and compromise in alloy engineering, *News and views*, **426**, 618
Meteorite impacts: Dinosaurs were not roasted, *News and views*, **426**, 618
Meteors: Parallel lines, *News and views*, **426**, 784
Nonlinear dynamics: Chaos relatively robust, *News and views*, **426**, 784
Ballester, G E. *See under* Vidal-Madjar, A, **422**, 143
Ballesteros, M L. *See under* Seo, H S, **423**, 995
Balley, M. *See under* Lamarre, D, **426**, 186
Balliet, A. *See under* Amanullah, A, **424**, 741
Ballister, E R. *See under* Herr, A B, **423**, 614
Balmford, A. *See under* Smith, R J, **426**, 67
Baltensperger, K. *See under* Reinhardt, D, **426**, 255
Baltuška, A. Attosecond control of electronic processes by intense light fields (*with* Udem, Th, Uiberacker, M, Hentschel, M, Goulielmakis, E, Gohle, Ch, Holzwarth, R, Yakovlev, V S, Scrinzi, A, Hänsch, T W, Krausz, F), *Letter to Nature*, **421**, 611
Erratum: Attosecond control of electronic processes by intense light fields (*with* Udem, Th., Uiberacker, M, Hentschel, M, Goulielmakis, E, Ghole, Ch., Holzwarth, R, Yakoviev, V S, Scrinzi, A, Hänsch, T W, Krausz, F), *Letter to Nature*, **422**, 189
Ban, N. *See under* Gutmann, S, **424**, 699
Banavar, J R. Physiology: Allometric cascades (*with* Damuth, J, Martian, A, Rinaldo, A), *Brief communication*, **421**, 713
See under Volkov, I, **424**, 1035
Bandfield, J L. *See under* Hamilton, V E, **421**, 711
Bando, M. *See under* Katou, Y, **424**, 1078
Bandyopadhyay, A. *See under* Noh, B, **423**, 999
Banerjee, R. *See under* Mungall, A J, **425**, 805
Banfield, J F. *See under* Zhang, H, **424**, 1025
Bangham, J A. *See under* Rolland-Lagan, A-G, **422**, 161
Banks, A S. *See under* Bates, S H, **421**, 856
Banks, M L. *See under* Mills, E M, **426**, 403
Banos, J-E. *See under* Guardiola, E, **423**, 917
Bansal, D. Defective membrane repair in dysferlin-deficient muscular dystrophy (*with* Miyake, K, Vogel, S S, Groh, S, Chen, C-C, Williamson, R, McNeil, P L, Campbell, K P), *Letter to Nature*, **423**, 168
Bao, Z. *See under* Jiang, N, **421**, 163
See under Schön, J H, **422**, 92
Barbara, B. Condensed-matter physics: Two bodies are better than one, *News and views*, **421**, 32
Barbaras, R. *See under* Martinez, L O, **421**, 75
Barbe, V. *See under* Heilig, R, **421**, 601
Barber, J. *See under* Bibby, T S, **424**, 1051
Barbraud, C. *See under* Weimerskirch, H, **421**, 333
Barbujani, G. Were Cro-Magnons too like us for DNA to tell? (*with* Bertorelle, G), *Correspondence*, **424**, 127
Barcinski, M A. Disruption to science in developing countries, *Correspondence*, **423**, 480
Barford, D. *See under* Salmeen, A, **423**, 769
Bargmann, C I. *See under* Murphy, C T, **424**, 277
Barkai, R. Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic (*with* Gopher, A, Lauritzen, S E, Frumkin, A), *Letter to Nature*, **423**, 977
Barkana, R. Spectral signature of cosmological infall of gas around the first quasars (*with* Loeb, A), *Letter to Nature*, **421**, 341
Barker, D J. *See under* Mungall, A J, **425**, 805
Barlow, K F. *See under* Mungall, A J, **425**, 805
Barnard, N D. Pointless suffering of animals can be avoided, *Correspondence*, **425**, 661
Barnbanter, O. *See under* Greiner, J, **426**, 157
Barnbaum, C. *See under* Sahai, R, **426**, 261
Barnes, D. *See under* McCulloch, M, **421**, 727
Barnes, J E. Illustration: images fail to portray dynamic skies, *Correspondence*, **422**, 374
Barnes, R. *See under* Garg, V, **424**, 443
Barnes, W L. Surface plasmon subwavelengths optics (*with* Dereux, A, Ebbesen, T W), *Insight review article*, **424**, 824
Barnes, W M. *See under* Pergams, O R W, **423**, 397
Baron, E. Astronomy: An elementary puzzle, *News and views*, **424**, 628
Baron, M. *See under* Hasegawa, Y, **425**, 45
Baron-Cohen, S. Essential Difference: Men, Women and the Extreme Male Brain/Essential Difference: The Truth About the Male and Female Brain, *Book review by* Benenson, J F, **424**, 132
Barondes, S. Better than Prozac: Creating the New Generation of Psychiatric Drugs, *Book review by* Iversen, L, **424**, 617
Barrandon, Y. Developmental biology: A hairy situation, *News and views*, **422**, 272
Barrat, A. *See under* D'Anna, G, **424**, 909
Barrell, B G. *See under* Wood, V, **421**, 94
Barrett, J C. *See under* Yin, Y, **422**, 527
Barrett, M. *See under* Leibfried, D, **422**, 412
Barrett, P. Palaeoclimatology: Cooling a continent, *News and views*, **421**, 221
Barrett, P M. *See under* Zhou, Z, **421**, 807
Barrett, P Q. *See under* Wolfe, J T, **424**, 209
Barrett, R. *See under* Galagan, J E, **422**, 859
Barria, D. *See under* Sicardy, B, **424**, 168
Barros, A. *See under* Burbank, D W, **426**, 652
Barruol, G. *See under* Wookey, J, **422**, 136
Barsh, G S. *See under* McIntire, J J, **425**, 576
Bartek, J. DNA repair: Damage alert (*with* Lukas, J), *News and views*, **421**, 486
See under Goldberg, M, **421**, 952
Bartels, R A. *See under* Paul, A, **421**, 51
Barth, A J. *See under* Fox, D W, **422**, 284
Barwise, T. *See under* White, N, **426**, 334
Basham, D. *See under* Wood, V, **421**, 94
Baskerville, C. *See under* Morris, M C, **423**, 1009
Basole, A. Mapping stimulus features in the population response of visual cortex (*with* White, L E, Fitzpatrick, D), *Letter to Nature*, **423**, 986
Bastiaens, P I H. *See under* Phizicky, E, **422**, 208
Bastian, J. , 423, 1018
See under Doiron, B, **421**, 539
See under Chacron, M J, **423**, 77
Bataille, E. *See under* Heilig, R, **421**, 601
Bates, K. *See under* Mungall, A J, **425**, 805
Bates, S H. STAT3 signalling is required for leptin regulation of energy balance but not reproduction (*with* Stearns, W H, Dundon, T A, Schubert, M, Tso, A W K, Wang, Y, Banks, A S, Lavery, H J, Haq, A K, Maratos-Flier, E, Neel, B G, Schwartz, M W, Myers Jr, M G), *Letter to Nature*, **421**, 856
Bathoorn, A M P. *See under* Caudy, A M, **425**, 411
Batlogg, B. *See under* Schön, J H, **422**, 92, **422**, 93
Battin, T J. Contributions of microbial biofilms to ecosystem processes in stream mesocosms (*with* Kaplan, L A, Newbold, J D, Hansen, C M E), *Letter to Nature*, **426**, 439
Bauch, D. Palaeoceanographic implications of genetic variation in living North Atlantic *Neogloboquadrina pachyderma* (*with* Darling, K, Simstich, J, Bauch, H A, Erienkeuser, H, Kroon, D), *Letter to Nature*, **424**, 299
Bauch, H A. *See under* Bauch, D, **424**, 299
Baugh, C. The Road to Galaxy Formation (*by* Keel, W C), *Book review*, **421**, 791
Baughman, R H. *See under* Dalton, A B, **423**, 703
Avoiding the shrink, *Concepts*, **425**, 667
Baumann, E. *See under* Pinyopich, A, **424**, 85
Baumann, P. *See under* Lei, M, **426**, 198
Baumeister, W. *See under* Sali, A, **422**, 216
Baumer, U. *See under* Koller, J, **425**, 784
Baumgardner, J R. *See under* Stegman, D R, **421**, 143
Baumgart, T. Imaging coexisting fluid domains I biomembrane models coupling curvature and line tension (*with* Hess, S T, Webb, W W), *Letter to Nature*, **425**, 821
Bausch, A R. *See under* Nikolaides, M G, **424**, 1014
Bavelier, D. *See under* Green, C S, **423**, 534
Baxter, G W. Kinetics: Gaussian statistics in granular gases (*with* Olafsen, J S), *Brief communication*, **425**, 680
Baykov, V I. *See under* Dubrovinsky, L, **422**, 58
Baylin, S B. *See under* Watkins, D N, **422**, 313
Beachy, P A. *See under* Watkins, D N, **422**, 313
See under Berman, D M, **425**, 846
Beales, P L. *See under* Ansley, S J, **425**, 628
Beanan, M J. *See under* Read, T D, **423**, 81
Bear, G. Darwin's Children: Evolution Has Changed the Face of the World, *Book review by* Goldman, M, **424**, 726
Beard, C. *See under* Opferman, J T, **426**, 671
Beare, D M. *See under* Mungall, A J, **425**, 805
Beasley, H. *See under* Mungall, A J, **425**, 805
Beasley, O. *See under* Mungall, A J, **425**, 805
Beaudoin, A B. *See under* Zazula, G D, **423**, 603
Beaugrand, G. Plankton effect on cod recruitment in the North Sea (*with* Brander, K M, Lindley, J A, Souissi, S, Reid, P C), *Letter to Nature*, **426**, 661
Beaulieu, P. *See under* Lamarre, D, **426**, 186, **426**, 314
Becher, C. *See under* Guide, S, **421**, 48
See under Schmidt-Kaler, F, **422**, 408
Beck, A. *See under* Wood, V, **421**, 94
Beck, S. *See under* Mungall, A J, **425**, 805
Beck, S C. *See under* Turner, J L, **423**, 621
Becker, H. *See under* Müller, D C, **421**, 829
Efficient mixing of the solar nebula from uniform Mo isotopic composition of meteorites (*with* Walker, R J), *Letter to Nature*, **425**, 152
Becker, K. *See under* Fisher, A T, **421**, 618
Becker, M C. *See under* Hillier, L W, **424**, 157
Becker, M W. *See under* Park, I-K, **423**, 302
Becker, R H. *See under* Inada, N, **426**, 810
Beckstrom-Sternberg, S M. *See under* Thomas, J W, **424**, 788
Bedell, J A. *See under* Hillier, L W, **424**, 157
Bedford, I D. *See under* Saunders, K, **422**, 831
Beere, H E. *See under* Crook, R, **424**, 751
Beerling, D J. *See under* Royer, D L, **424**, 60
Beers, T C. Astronomy: Telling the tale of the first stars, *News and views*, **422**, 825
Begley, T J. A fix for RNA (*with* Samson, L D), *News and views*, **421**, 795
Begthel, H. *See under* Hurlstone, A F L, **425**, 633
Behringer, R P. *See under* Hartley, R R, **421**, 928
Behringer, R R. *See under* Kile, B T, **425**, 81
Beiko, R G. *See under* Charlebois, R L, **421**, 217
Beisker, W. *See under* Sicardy, B, **424**, 168
Bekenov, A B. *See under* Milner-Gulland, E J, **422**, 135
Bekki, K. *See under* Drinkwater, M J, **423**, 519
Bell, J I. The double helix in clinical practice, *Feature*, **421**, 414
Bell-Pedersen, D. *See under* Galagan, J E, **422**, 859
Belle, A. *See under* Ghaemmaghami, S, **425**, 737
Bellemere, C. *See under* Heilig, R, **421**, 601
Bellon, R. Hewett Cottrell Watson: Victorian Plant Ecologist and Evolutionist (*by* Egerton, F N), *Book review*, **423**, 589
Belonoshko, A B. Stability of the body-centred-cubic phase of iron in the Earth's inner core (*with* Ahuja, R, Johansson, B), *Letter to Nature*, **424**, 1032
Belser, C. *See under* Heilig, R, **421**, 601
Ben-Shem, A. Crystal structure of plant photosystem I (*with* Froiow, F, Nelson, N), *Article*, **426**, 630
Benammi, M. *See under* Chaimanee, Y, **422**, 61
Bendall, D S. *See under* Molina-Heredia, F P, **424**, 33
Benenson, J F. Essential Difference: Men, Women and the Extreme Male Brain/Essential Difference: The Truth About the Male and Female Brain (*by* Baron-Cohen, S), *Book review*, **424**, 132
Benfrey, P N. Molecular biology: MicroRNA is here to stay, *News and views*, **425**, 244
Bengtson, S. Life on a Young Planet: The First Three Billion Years of Evolution on Earth (*by* Knoll, A H), *Book review*, **423**, 481
Benito, J. *See under* Wood, V, **421**, 94
Benjamin, B. *See under* Thomas, J W, **424**, 788
Benner, S A. Act natural, *Concepts*, **421**, 118
See under Gaucher, E A, **425**, 285
Bennett, J. London's Leonardo: The Life and Work of Robert Hooke (*with* Cooper, M, Hunter, M, Jardine, L), *Book review by* Oldroyd, D R, **423**, 384
Bennett, M. *See under* Reinhardt, D, **426**, 255
Bennett, V. *See under* Mohler, P J, **421**, 634
Bennett, V C. *See under* Sun, W, **422**, 294
Benoit, G. *See under* Wang, Z, **423**, 555
Benoit-Bird, K J. *See under* Au, W W L, **423**, 861
Bentley, D R. *See under* Mungall, A J, **425**, 805
Benton, J L. *See under* Read, T D, **423**, 81
Benton, M. When Life Nearly Died: The Greatest Mass Extinction of All Time, *Book review by* Bowler, P J, **423**, 384
Benz, W. *See under* Michel, P, **421**, 608
Bercovici, D. Whole-mantle convection and the transition-zone water filter (*with* Karato, S-I), *Hypothesis*, **425**, 39
Berg, H C. *See under* Fahrner, K A, **423**, 938
Berg, M P. *See under* De Deyn, G B, **422**, 711
Berg, P. George Beadle, and Uncommon Farmer: The Emergence of Genetics in the 20th Century (*with* Singer, M), *Book review by* Müller-Hill, B, **426**, 122
Bergami, A. *See under* Pluchino, S, **422**, 688
Bergelson, J. *See under* Tian, D, **423**, 74
Berger, E. *See under* Fox, D W, **422**, 284
See under Price, P A, **423**, 844
A common origin for cosmic explosions inferred from calorimetry of GRB0303929 (*with* Kulkarni, S R, Pooley, G, Frail, D A, McIntyre, V, Wark, R M, Sari, R, Soderberg, A M, Fox, D W, Yost, S, Price, P A), *Letter to Nature*, **426**, 154
Berglund, J A. *See under* Galagan, J E, **422**, 859
Berglund, P. *See under* Eriksson, M, **423**, 293
Bergman, A. Evolutionary capacitance as a general feature of complex gene networks (*with* Siegal, M L), *Letter to Nature*, **424**, 549
Bergstrom, A. *See under* Niewoehner, W A, **422**, 395
Bergstrom, C T. *See under* Antia, R, **426**, 658
Bergthorsson, U. Widespread horizontal transfer of mitochondrial genes in flowering plants (*with* Adams, K L, Thomason, B, Palmer, J D), *Letter to Nature*, **424**, 197
Berkowicz, N. *See under* Hillier, L W, **424**, 157
Berman, D M. *See under* Watkins, D N, **422**, 313
Widespread requirement for Hedgehog ligand stimulation in growth of digestive tract tumours (*with* Karhadkar, S S, Maltra, A, Montes de Oca, R, Gerstenblith, M R, Briggs, K, Parker, A R, Shimada, Y, Eshleman, J R, Watkins, D N, Beachy, P A), *Letter to Nature*, **425**, 846

- **Bermejo, M.** *See under* Walsh, P D, **422**, 611
- **Bernaola-Galvan, P.** *See under* Carpena, P, **421**, 764
- **Bernards, R.** *See under* Brummelkamp, T R, **424**, 797
  - Cancer: Cues for migration, *News and views*, **425**, 247
- **Berne, M A.** *See under* Li, W, **426**, 450
- **Berner, R A.** The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, **426**, 323
- **Berns, A.** Tumour suppressors: Timing will tell, *News and views*, **424**, 140
- **Berry, A.** *See under* Watson, J D, **422**, 809
  - Nature via Nurture: Genes, Experience and What Makes Us Human (*by* Ridley, M), *Book review*, **422**, 814
- **Berry, C.** *See under* Parkhill, J, **423**, 23
- **Berry, K J.** *See under* Read, T D, **423**, 81
- **Berry, L.** Systema Porifera: A Guide to the Classification of Sponges (*by* Hooper, J N A, van Soest, R W M), *Book review*, **421**, 791
- **Bertholet, S.** *See under* Houde, M, **425**, 402
- **Berthomieu, A.** *See under* Weill, M, **423**, 136, **425**, 366
- **Berticat, C.** *See under* Weill, M, **423**, 136, **425**, 366
- **Bertoldl, F.** *See under* Walter, F, **424**, 406
- **Bertorelle, G.** *See under* Barbujani, G, **424**, 127
- **Bertotti, B.** A test of general relativity using radio links with the Cassini spacecraft (*with* Iess, L, Tortora, P), *Letter to Nature*, **425**, 374
- **Besnard-Laurent, V.** *See under* Heilig, R, **421**, 601
- **Best, R B.** *See under* Williams, P M, **422**, 446
- **Bethel, G.** *See under* Mungall, A J, **425**, 805
- **Beton, P H.** *See under* Theobold, J A, **424**, 1029
- **Betschinger, J.** The Par complex directs asymmetric cell division by phosphorylating the cytoskeletal protein Lgl (*with* Mechtler, K, Knoblich, J A), *Letter to Nature*, **422**, 326
- **Bettinger, R.** After the Ice: A Global Human History 20,000–5000 BC (*by* Mithen, S), *Book review*, **425**, 453
- **Bettinger, R L.** Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution (*by* Shennan, S), *Book review*, **422**, 20
- **Betts, J B.** *See under* Balakirev, F F, **424**, 912
- **Betz, W J.** *See under* Rizzoli, S O, **423**, 591
- **Beuran, F C.** *See under* Schön, J H, **422**, 92
- **Beutler, B.** *See under* Hoebe, K, **424**, 743
- **Bevan, R.** *See under* Thomas, J W, **424**, 788
- **Bevins, C L.** *See under* Salzman, N H, **422**, 522
- **Bewley, T.** Behavioural science: Fair's fair, *News and views*, **422**, 125
- **Beyene, Y.** *See under* Clark, J D, **423**, 747
- **Beyers, R.** *See under* Walsh, P D, **422**, 611
- **Bezemer, T M.** *See under* De Deyn, G B, **422**, 711
- **Bhatt, K H.** *See under* Velev, O D, **426**, 515
- **Bhattacharyya, A.** *See under* Ivanova, N, **423**, 87
- **Biancalana, F.** *See under* Reeves, W H, **424**, 511
- **Bibby, T S.** Low-light-adapted *Prochlorococcus* species possess specific antennae for each photosystem (*with* Mary, I, Nield, J, Partensky, F, Barber, J), *Letter to Nature*, **424**, 1051
- **Bidoli, V.** *See under* Casolino, M, **422**, 680
- **Biel, M.** *See under* Hattar, S, **424**, 76
- **Bielicki, L.** *See under* Hillier, L W, **424**, 157
- **Bielke, C.** *See under* Galagan, J E, **422**, 859
- **Bieri, T.** *See under* Skaletsky, H, **423**, 825
- **Bieri, T A.** *See under* Hillier, L W, **424**, 157
- **Biewener, A A.** *See under* Tobalske, B W, **421**, 363
- **Biffo, S.** *See under* Ceci, M, **426**, 579
- **Bigay, J.** Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature (*with* Gounon, P, Robineau, S, Antonny, B), *Letter to Nature*, **426**, 563
- **Bignami, G F.** The magnetic field of an isolated neutron star from X-ray cyclotron absorption lines (*with* Caraveo, P A, De Luca, A, Mereghetti, S), *Letter to Nature*, **423**, 725
- **Bignell, C R.** *See under* Stewart, G S, **421**, 961
- **Bihain, B E.** Need for a court to rule on patents and misconduct, *Correspondence*, **424**, 875
- **Bijsterveld, E J A.** *See under* Thordarson, P, **424**, 915
- **Biju, S D.** New frog family from India reveals an ancient biogeographical link with the Seychelles (*with* Bossuyt, F), *Letter to Nature*, **425**, 711
- **Billas, I M L.** Structural adaptability in the ligand-binding pocket of the ecdysone hormone receptor (*with* Iwema, T, Garnier, J-M, Mitschler, A, Rochel, N, Moras, D), *Letter to Nature*, **426**, 91
- **Bince, J M.** *See under* Wikramanayake, A H, **426**, 446
- **Bing, G.** *See under* Liou, Y-C, **424**, 556
- **Bingham, R.** Accelerator physics: In the wake of success, *News and views*, **424**, 258
- **Bingley, P.** *See under* Ueda, H, **423**, 506
- **Binkac, L M.** *See under* Read, T D, **423**, 81
- **Binzel, R P.** Spin control for asteroids, *News and views*, **425**, 131
- **Birck, J-L.** *See under* Caro, G, **423**, 428, **424**, 974
- **Bird, A P.** *See under* Selker, E U, **422**, 893
- **Bird, C P.** *See under* Mungall, A J, **425**, 805
- **Birkhead, T.** The Red Canary: The Story of the First Genetically Engineered Animal, *Book review by*, Coyne, J A, **425**, 772
- **Birkhead, T R.** *See under* Pizzari, T, **426**, 70
- **Birnbaum, C.** *See under* Sicardy, B, **424**, 168
- **Birney, E.** *See under* Salzberg, S, **422**, 801
- **Birren, B.** *See under* Galagan, J E, **422**, 859
  - *See under* Kellis, M, **423**, 241
- **Bishop, J M.** How to Win the Nobel Prize: An Unexpected Life In Science, *Book review by* Hargittai, I, **423**, 921
- **Bissiere, S.** *See under* Humeau, Y, **426**, 841
- **Bitterman, K J.** *See under* Andersen, R M, **423**, 181
  - *See under* Howitz, K T, **425**, 191
- **Bivona, T G.** Phospholipase Cγ activates Ras on the Golgi apparatus by means of RasGRP1 (*with* Pérez de Castro, I, Ahearn, I M, Grana, T M, Chiu, V K, Lockyer, P J, Cullen, P J, Pellicer, A, Cox, A D, Philips, M R), *Letter to Nature*, **424**, 694
- **Bizzarro, M.** Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites (*with* Baker, J A, Haack, H, Ulfbeck, D, Rosing, M), *Letter to Nature*, **421**, 931
- **Björnsson, G.** *See under* Jónsson, S, **424**, 179
- **Bjørås, M.** *See under* Aas, P A, **421**, 859
- **Bjorkman, P J.** *See under* Herr, A B, **423**, 614
- **Bjornholm, T.** *See under* Kubatkin, S, **425**, 698
- **Blaauwgeers, R.** *See under* Finne, A P, **424**, 1022
- **Black, K D.** *See under* Zagotta, W N, **425**, 200
- **Blackburn, G M.** *See under* Xiao, B, **421**, 652
- **Blackmore, S.** Consciousness: An Introduction, *Book review by* Farber, I, **426**, 604
- **Blacque, O E.** *See under* Ansley, S J, **425**, 628
- **Blain, A W.** *See under* Chapman, S C, **422**, 695
  - *See under* Price, P A, **423**, 844
- **Blair, S S.** Developmental biology: Boundary lines, *News and views*, **424**, 379
- **Blais, J M.** *See under* Krummel, E M, **425**, 255
- **Blake, R.** *See under* Tadin, D, **424**, 312
- **Blake, W J.** Noise in eukaryotic gene expression (*with* Kaern, M, Cantor, C R, Collins, J J), *Letter to Nature*, **422**, 633
- **Blakemore, C.** Is a scientific boycott ever justified? (*with* Dawkins, R, Noble, D, Yudkin, M), *Commentary*, **421**, 314
- **Blakesley, R W.** *See under* Thomas, J W, **424**, 788
- **Blakey, S.** *See under* Mungall, A J, **425**, 805
- **Blamart, D.** *See under* Genty, D, **421**, 833
- **Blanchette, M.** *See under* Thomas, J W, **424**, 788
- **Bland, P A.** Efficient disruption of small asteroids by Earth's atmosphere (*with* Artemleva, N A), *Letter to Nature*, **424**, 288
- **Blank, D H A.** *See under* Hilgenkamp, H, **422**, 50
- **Blass, E M.** Reproductive biology: Mammary messages, *News and views*, **424**, 25
- **Blatt, R.** *See under* Guide, S, **421**, 48
  - *See under* Schmidt-Kaler, F, **422**, 408
- **Blatter, G.** Quantum computing: The qubit duet, *News and views*, **421**, 796
- **Blaxter, M.** Molecular systematics: Counting angels with DNA, *News and views*, **421**, 122
  - Comparative genomics: Two worms are better than one, *News and views*, **426**, 395
- **Blazsek, A.** *See under* Li, Y, **424**, 341
- **Bleeker, J A.** The Century of Space Science (*with* Geiss, J, Huber, M C E), *Book review by* Hodge, P, **421**, 316
- **Blencowe, M.** Quantum physics: Uncertain future, *News and views*, **424**, 262
- **Blethrow, J D.** *See under* Ubersax, J A, **425**, 859
- **Bligny, R.** *See under* Tournaire-Roux, C, **425**, 393
- **Blinkhorn, S.** Neuroscience: Of mice and mentality, *News and views*, **424**, 1004
- **Block, S M.** *See under* Shaevitz, J W, **426**, 684
- **Blome, C.** *See under* Sokolowski-Tinten, K, **422**, 287
- **Blomqvist, D.** Reply: Evolutionary biology: Why do birds engage in extra-pair copulation? (*with* Andersson, M, Kïpper, C, Cuthill, I C, Kis, J, Lanctot, R B, Sandercock, B K, Székely, T, Wallander, J, Kempenaers, B), *Brief communication*, **422**, 833
- **Bloom, P.** The Big Book of Concepts (*by* Murphy, G L), *Book review*, **421**, 212
- **Bloss, T A.** Suppression of CED-3-independent apoptosis by mitochondrial βNAC in *Caenorhabditis elegans* (*with* Witze, E S, Rothman, J H), *Letter to Nature*, **424**, 1066
- **Blow, J J.** *See under* Li, A, **423**, 818
- **Bluet, E.** *See under* Heilig, R, **421**, 601
- **Blum, J D.** Reply: Ecology: Mycorrhizal weathering in base-poor forests (*with* Klaue, A, Nezat, C A, Driscoll, T, Johnson, C E, Siccama, T G, Eagar, C, Fahey, T J, Likens, G E), *Brief communication*, **423**, 824
- **Blum, R.** *See under* Rose, C R, **426**, 74
- **Blums, J.** *See under* Sokolowski-Tinten, K, **422**, 287
- **Blundy, J D.** *See under* Brooker, R A, **423**, 738
- **Blystone, S D.** There's more to science (and life), than scoops, *Correspondence*, **426**, 759
- **Blythe, A E.** *See under* Burbank, D W, **426**, 652
- **Boamfa, M I.** Observation of surface and bulk phase transitions in nematic liquid crystals (*with* Kim, M W, Mann, J C, Rasing, Th), *Letter to Nature*, **421**, 149
- **Bobrowski, N.** Detection of bromine monoxide in a volcanic plume (*with* Honninger, G, Galle, B, Platt, U), *Letter to Nature*, **423**, 273
- **Boca, A.** *See under* Kuzmich, A, **423**, 731
  - *See under* McKeever, J, **425**, 268
- **Bocher, R.** *See under* Kruger, M, **426**, 878
- **Bock, F.** *See under* Chittka, L, **424**, 388
- **Bock, G.** *See under* Rumpker, G, **425**, 497
- **Bock, P E.** *See under* Friedrich, R, **425**, 535
- **Bockrath, M.** Condensed-matter physics: Illuminating behaviour, *News and views*, **426**, 511
- **Bodammer, G.** *See under* Duncan, R R, **422**, 176
- **Bode, W.** *See under* Friedrich, R, **425**, 535
- **Boebinger, G S.** *See under* Balakirev, F F, **424**, 912
- **Boehm, M F.** *See under* Kamal, A, **425**, 407
- **Boehnke, M.** *See under* Eriksson, M, **423**, 293
- **Boekema, E J.** *See under* Ruban, A V, **421**, 648
- **Boering, K A.** *See under* Rahn, T, **424**, 918
- **Boetius, A.** *See under* Witte, U, **424**, 763
- **Boezio, M.** *See under* Casolino, M, **422**, 680
- **Bogan, J S.** Functional cloning of TUG as a regulator of GLUT4 glucose transporter trafficking (*with* Hendon, N, McKee, A E, Tsao, T-S, Lodish, H F), *Letter to Nature*, **425**, 727
- **Bogdanov, P V.** *See under* Zhou, X J, **423**, 398
- **Boggs, S E.** *See under* Coburn, W, **423**, 415
- **Boguski, M S.** Biomedical informatics for proteomics (*with* McIntosh, M W), *Insight review article*, **422**, 233
- **Bohannan, E W.** *See under* Switzer, J A, **425**, 490
- **Bohn, J L.** *See under* Regal, C A, **424**, 47
- **Boiger, G.** *See under* Lamarre, D, **426**, 186, **426**, 314
- **Boisserie, J-R.** *See under* Clark, J D, **423**, 747
- **Bok, D.** Universities in the Marketplace: The Commercialization of Higher Education, *Book review by* Gunawardena, J, **424**, 489
- **Boles, L C.** True navigation and magnetic maps in spiny lobsters (*with* Lohmann, K J), *Letter to Nature*, **421**, 60
- **Bolle, C.** *See under* Seo, H S, **423**, 995
- **Bolotin, D.** Cancer: More than skin deep (*with* Fuchs, E), *News and views*, **421**, 594
- **Bonatti, E.** Mantle thermal pulses below the Mid-Atlantic Ridge and temporal variations in the formation of oceanic lithosphere (*with* Ligi, M, Brunelli, D, Cipriani, A, Fabretti, P, Ferrante, V, Gasperini, L, Ottolini, L), *Article*, **423**, 499
- **Bond, H E.** An energetic stellar outburst accompanied by circumstellar light echoes (*with* Henden, A, Levay, Z G, Panagia, N, Sparks, W B, Starrfield, S, Wagner, R M, Corradi, R L M, Munari, U), *Letter to Nature*, **422**, 405
- **Bonetta, L.** Do you want to work here?, *News feature*, **424**, 718
- **Bonifacio, P.** Astrophysics: How did the metals in a giant star originate (*with* Limongi, M, Chieffi, A), *Brief communication*, **422**, 834
- **Bonke, M.** APL regulates vascular tissue identity in *Arabidopsis* (*with* Thitamadee, S, Mahonen, A P, Hauser, M-T, Helariutta, Y), *Letter to Nature*, **426**, 181
- **Bonneau, P.** *See under* Lamarre, D, **426**, 186, **426**, 314
- **Bono, M R.** *See under* Mora, J R, **424**, 88
- **Bonvicini, V.** *See under* Casolino, M, **422**, 680
- **Booth, S R.** *See under* Catherall, A T, **422**, 579
- **Boozer, A D.** *See under* Kuzmich, A, **423**, 731
  - *See under* McKeever, J, **425**, 268
- **Borchers, C.** *See under* Huang, C, **424**, 219
- **Bordelais, I.** *See under* Heilig, R, **421**, 601
- **Bordin, C.** *See under* Ueda, H, **423**, 506
- **Bork, P.** *See under* Hillier, L W, **424**, 157
- **Borkovich, K A.** *See under* Galagan, J E, **422**, 859
- **Borngen, M.** *See under* Mudelsee, M, **425**, 166
- **Borozdin, K N.** Radiographic imaging with cosmic-ray muons (*with* Hogan, G E, Morris, C, Proedhorsky, W C, Saunders, A, Schultz, L J, Teasdale, M E), *Brief communication*, **422**, 277
- **Borrelli, N F.** *See under* Smith, C M, **424**, 657
- **Borrow, P.** *See under* Diebold, S S, **424**, 324
- **Borzym, K.** *See under* Wood, V, **421**, 94
- **Bos, M.** *See under* Lamarre, D, **426**, 186, **426**, 314
- **Boscus, D.** *See under* Heilig, R, **421**, 601
- **Bosh, A S.** *See under* Elliot, J L, **424**, 165
- **Boss, A.** New Worlds in the Cosmos: The Discovery of Exoplanets (*by* Mayor, M, Frei, P-Y, Roukema, B), *Book review*, **426**, 386
- **Bossaller, L.** *See under* Jumaa, H, **423**, 452
- **Bossuyt, F.** *See under* Biju, S D, **425**, 711
- **Boswell, R.** Plasma physics: Cosmic waves in the lab, *News and views*, **425**, 353
- **Bothwell, J H F.** *See under* Foreman, J, **422**, 442
- **Bottaro, D P.** Cancer: Out of air is not out of action (*with* Liotta, L A), *News and views*, **423**, 593
- **Bottke, W F.** *See under* Vokrouhlicky, D, **425**, 147
- **Boudah, A.** *See under* Jasmin, L, **424**, 316
- **Boudreau, D.** *See under* Coull, J A M, **424**, 938
- **Boudsocq, F.** *See under* Ling, H, **424**, 1083
- **Bouffard, G G.** *See under* Thomas, J W, **424**, 788
- **Bourdes, A.** *See under* Lodwig, E M, **422**, 722
- **Bourdon, B.** *See under* Caro, G, **423**, 428, **424**, 974
- **Bourlat, S J.** *Xenoturbella* is a deuterostome that eats molluscs (*with* Nielsen, C, Lockyer, A E, Littlewood, D T J, Telford, M J), *Letter to Nature*, **424**, 925
- **Bourne, J.** *See under* Donnelly, C A, **426**, 834
- **Bourne, P E.** Free access to publicly funded databases is essential, *Correspondence*, **421**, 786
- **Bourot-Denise, M.** *See under* Trieloff, M, **422**, 502
- **Boutin, S.** *See under* Rueness, E K, **425**, 69
- **Bowen, W P.** *See under* Kuzmich, A, **423**, 731
- **Bower, K.** *See under* Ghaemmaghami, S, **425**, 737
- **Bowerman, B.** *See under* Pintard, L, **425**, 311
- **Bowers, J E.** Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events (*with* Chapman, B A, Rong, J, Paterson, A H), *Letter to Nature*, **422**, 433
- **Bowler, J M.** New ages for human occupation and climatic change at Lake Mungo, Australia (*with* Johnston, H, Olley, J M, Prescott, J R, Roberts, R G, Shawcross, W, Spooner, N A), *Letter to Nature*, **421**, 837
- **Bowler, M G.** *See under* Kelly, C, **422**, 582
- **Bowler, P J.** When Life Nearly Died: The Greatest Mass Extinction of All Time (*by* Benton, M), *Book review*, **423**, 384
- **Bowman, S.** *See under* Wood, V, **421**, 94
- **Bown, T.** *See under* Kappelman, J, **426**, 549
- **Box, N.** *See under* Kile, B T, **425**, 81
- **Boyko, V.** *See under* Kovalchuk, I, **423**, 760
- **Boyle, W J.** Osteoclast differentiation and activation (*with* Simonet, W S, Lacey, D L), *Insight review article*, **423**, 337

Bozovic, I. No mixing of superconductivity and antiferromagnetism in a high-temperature superconductor (*with* Logvenov, G, Verhoeven, M A J, Caputo, P, Goldobin, E, Geballe, T H), *Letter to Nature*, **422**, 873
Braakman, I. *See under* Sitia, R, **426**, 891
Braband, A. *See under* Scholtz, G, **421**, 806
Bradler, S. *See under* Whiting, M F, **421**, 264
Bradley, A. *See under* Kile, B T, **425**, 81
Bradshaw, A M. JET at risk if Europe cannot afford to pay for ITER, *Correspondence*, **425**, 661
Bradshaw, H D. Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers (*with* Schemske, D), *Letter to Nature*, **426**, 176
Bradshaw-Cordum, H. *See under* Hillier, L W, **424**, 157
Brahamsha, B. *See under* Palenik, B, **424**, 1037
Braithwaite, J. *See under* Drahos, P, **421**, 577
Brakefield, P M. *See under* Joron, M, **424**, 191
See under Richardson, M K, **424**, 894
Brakefield, T. *See under* Walker, M P, **425**, 616
Brambilla, E. *See under* Pluchino, S, **422**, 688
Brander, C. *See under* Altfeld, M, **423**, 461
Brander, K M. *See under* Beaugrand, G, **426**, 661
Brandner, S. *See under* White, A R, **422**, 80
Brandolin, G. *See under* Pebay-Peyroula, E, **426**, 39
Branning, D. *See under* O'Brien, J L, **426**, 264
Bransteitter, R. *See under* Pham, P, **424**, 103
Brashares, J S. *See under* Sinclair, A R E, **425**, 288
Brasseur, R. *See under* Vanhamme, L, **422**, 83
Braun, E L. *See under* Galagan, J E, **422**, 859
Braunschweig, M. *See under* Van Laere, A-S, **425**, 832
Bray, P G. *See under* Eckstein-Ludwig, U, **424**, 957
Bray-Allen, S. *See under* Mungall, A J, **425**, 805
Brédas, J-L. *See under* Kubatkin, S, **425**, 698
Bremmer, F. *See under* Krekelberg, B, **424**, 674
Bremner, J D. Does Stress Damage the Brain? Understanding Trauma-related Disorders from a Mind-Body Perspective, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
Brenan, J M. *See under* Schulze, D J, **423**, 68
Brenner, M P. *See under* Nikolaides, M G, **424**, 1014
Brenninkmeijer, C A M. *See under* Krol, M C, **421**, 131
Brent, A. Writing: LEX and flexibility, *Correspondence*, **424**, 128
Brent, M R. *See under* Hillier, L W, **424**, 157
Brett, K A. *See under* Kemper, C, **421**, 388
Breznen, B. *See under* Rizzuto, D S, **424**, 369
Brichacek, B. *See under* Swingler, S, **424**, 213
Briggs, J A G. *See under* Schwarz-Linek, U, **423**, 177
Briggs, K. *See under* Berman, D M, **425**, 846
Briggs, M S. *Sec under* González, M M, **424**, 749
Briggs, W R. *See under* Imaizumi, T, **426**, 302
Bringhurst, F R. *See under* Calvi, L M, **425**, 841
Brinkley, C P. *See under* Thomas, J W, **424**, 788
Brinkmann, J. *See under* Inada, N, **426**, 810
Britton, J. *See under* Leibfried, D, **422**, 412
Brodholt, J P. *See under* Vocadlo, L, **424**, 536
Bromm, V. *See under* Schneider, R, **422**, 869
The formation of the first low-mass stars from gas with low carbon and oxygen abundances (*with* Loeb, A), *Letter to Nature*, **425**, 812
Bronson, R. *See under* Liou, Y-C, **424**, 556
Bronson, R T. *See under* Neumann, C A, **424**, 561
Brook, B W. Catastrophic extinctions follow deforestation in Singapore (*with* Sodhi, N S, Ng, P K L), *Letter to Nature*, **424**, 420
Brook, J. *See under* Mungall, A J, **425**, 805
Brooker, R A. The 'zero charge' partitioning behaviour of noble gases during mantle melting (*with* Du, Z, Blundy, J D, Kelley, S P, Allan, N L, Wood, B J, Chamorro, E M, Wartho, J-A, Purton, J A), *Letter to Nature*, **423**, 738
Brookfield, J. The system rewards a dishonest approach, *Correspondence*, **423**, 480
Brooks, K. *See under* Wood, V, **421**, 94
See under Sicardy, B, **424**, 168
Brooks, S Y. *See under* Thomas, J W, **424**, 788
Brosens, J J. Oestrogen receptor hijacked (*with* Parker, M G), *News and views*, **423**, 487
Brosnan, S F. Monkeys reject unequal pay (*with* de Waal, F B M), *Letter to Nature*, **425**, 297
Brottier, P. *See under* Heilig, R, **421**, 601
Brouri, R. *See under* Grosshans, F, **421**, 238
Brown, A J. *See under* Mungall, A J, **425**, 805
Brown, B R. Sensing temperature without ion channels, *Brief communication*, **421**, 495
Brown, D. *See under* Wood, V, **421**, 94
Brown, J D. *See under* Willert, K, **423**, 448
Brown, J H. *See under* West, G B, **421**, 713
See under Gillooly, J F, **424**, 270
See under Li, Y, **424**, 341
Brown, J Y. *See under* Mungall, A J, **425**, 805
Brown, L G. *See under* Skaletsky, H, **423**, 825
Brown, S. *See under* Wood, V, **421**, 94
Brown, T M. Astronomy: Distant planet is the hottest yet, *News and views*, **421**, 488
Brown, W A. Placebo: The Belief Effect (*by* Evans, D), *Book review*, **422**, 118
Brown, W T. *See under* Eriksson, M, **423**, 293
Brownlee, C. *See under* Foreman, J, **422**, 442
Brownlee, D. *See under* Ward, P D, **422**, 663
Our Final Hour: A Scientist's Warning: How Terror, Error, and Environmental Disaster Threatens Humankind's Future in the Century — On Earth and Beyond/Our Final Center: Will the Human Race Survive the Twenty-First Century? (*by* Rees, M), *Book review*, **423**, 803
Bruen, T C. *See under* Thomas, J W, **424**, 788
Bruls, T. *See under* Heilig, R, **421**, 601
Brumfiel, G. Los Alamos directors resign after row over sacked whistleblowers, *News*, **421**, 99
US societies unite in plea for boost to research budgets, *News*, **421**, 100
Gravity experiment sparks spat between physicists, *News*, **421**, 198
Resignations rock mathematics institute, *News*, **421**, 303
NASA sets up dual probes into shuttle accident, *News*, **421**, 561
Fusion project back on track as US returns to the fold, *News*, **421**, 563
Ebbs and flows at standard lab (*with* Hoag, H), *News*, **421**, 565
Falls for basic defence research (*with* Hoag, H), *News*, **421**, 565
Food safety comes to the fore (*with* Hoag, H), *News*, **421**, 565
Science feels the pinch as Bush budget targets defence (*with* Hoag, H), *News*, **421**, 565
Space research goes nuclear (*with* Hoag, H), *News*, **421**, 565
On wings and a prayer, *News feature*, **421**, 684
Bush seeks to beef up US nuclear-weapons arsenal, *News*, **422**, 101
Hydrogen cars fuel debate on basic research, *News*, **422**, 104
Cosmology gets real, *News feature*, **422**, 108
Revamped accelerator seeks quark's secrets, *News*, **422**, 248
Analysts seek proof of military precision, *News*, **422**, 362
Moderate flies flag for science on Capitol Hill, *News*, **422**, 365
Congressmen unmoved by foreigners' plight, *News*, **422**, 457
Researchers rage at tightened restrictions on US immigration, *News*, **422**, 457
Physicist discouraged by heightened security, *News*, **422**, 458
High-voltage shock sparks fusion from X-ray crush, *News*, **422**, 549
French minister breaks diplomatic ice with visit to US, *News*, **422**, 551
Livermore official linked with alleged spy, *News*, **422**, 651
Partners dig deep for ocean-drilling project, *News*, **422**, 651
Lie probes to continue at US weapons labs, *News*, **422**, 793
Los Alamos contract open to bids, *News*, **423**, 104
Physicist takes the reins at Santa Fe complexity centre, *News*, **423**, 105
See under Cyranoski, D, **423**, 110
US support for Spain triggers unease over fusion project (*with* Butler, D), *News*, **423**, 211
Iraqi looters spark alert over radiation risks, *News*, **423**, 370
Experts blast US decision to back nuclear bunker-busters, *News*, **423**, 469
Astronomers leap to defence of extra seconds in time debate, *News*, **423**, 671
Physicists doubt that 'corking; could help baseball's big hitter, *News*, **423**, 674
Pumping row erodes hopes for underground lab, *News*, **423**, 674
Still out in the cold, *News feature*, **423**, 678
Visa rules leave US colleges facing semester of discontent, *News*, **423**, 906
Below-par performance hampers Fermibal quest for Higgs boson, *News*, **424**, 3
String theorists bypass NSF en route to Iran seminar, *News*, **424**, 3
Experts find fault with US plan to intercept missiles at source, *News*, **424**, 240
A little knowledge, *News feature*, **424**, 246
Physics poised for sizeable gains in energy department's wish-list, *News*, **424**, 357
US budgets for physical endeavour, *News*, **424**, 361
Strategy for climate research gets cool response, *News*, **424**, 475
US bombshell hits revamp of Russian weapons centres, *News*, **424**, 479
Terrorist betting leaves defence agency fighting for autonomy, *News*, **424**, 601
Gold-mine conversion eases closer, *News*, **424**, 713
Paired-up helium atoms make it big, *News*, **424**, 865
Ministers appointed to engineer revival in Iraqi research, *News*, **425**, 111
Esoteric theorist lands starring role in Senate hearing, *News*, **425**, 113
Cosmologists cluster to plot course towards dark energy, *News*, **425**, 335
Ion-powered probe set for year-long Moon trek, *News*, **425**, 438
Adviser gears up to bring scientists to matters of state, *News*, **425**, 439
Congress split over funding for 'safe' nuclear reactor, *News*, **425**, 650
US loses allure in foreign students' eyes, *News*, **426**, 5
US reveals physics wish-list in bid for scientific frontier, *News*, **426**, 108
Magnetic effect sends physicists into a spin, *News*, **426**, 110
Night club, *News feature*, **426**, 116
Europe urged to counter nuclear proliferation threat, *News*, **426**, 219
State department woos weapons researchers in bid to rebuild Iraq, *News*, **426**, 371
National Science Foundation facing budget let-down, *News*, **426**, 593
In the shadow of fear (*with* Knight, J), *News feature*, **426**, 748
Cosmology: Welcome to the real world, *News feature*, **426**, 751
Brummelkamp, T R. Loss of the cylindromatosis tumour suppressor inhibits apoptosis by activating NF-κB (*with* Nijman, S M B, Dirac, A M G, Bernards, R), *Letter to Nature*, **424**, 797
Brummer, J. How genius can smooth the road to publication, *Correspondence*, **426**, 119
Brunelli, D. *See under* Bonatti, E, **423**, 499
Brunet, L J. *See under* Warren, S M, **422**, 625
Brunet, S. *See under* Houde, M, **425**, 402
Brunner, K. *See under* Welter, S, **421**, 54
Brus, L E. *See under* Rabani, E, **426**, 271
Brust-Mascher, I. *See under* Scholey, J M, **422**, 746
Bryant, P. Original Intelligence: Unlocking the Mystery of Who We Are (*by* Premack, D, Premack, A), *Book review*, **425**, 17
Bryant, Z. *See under* Bustamante, C, **421**, 423
Structural transitions and elasticity from torque measurements on DNA (*with* Stone, M D, Gore, J, Smith, S B, Cozzarelli, N R, Bustamante, C), *Letter to Nature*, **424**, 338
Bryson, B. A Short History of Nearly Everything, *Book review by* Gratzer, W, **424**, 725
Brzyski, R. *See under* Carson, S, **423**, 381
Bshary, R. Coral Reef Fishes: Diversity and Dynamics in a Complex Ecosystem (*by* Sale, P), *Book review*, **421**, 317
Bu, X. *See under* Zheng, N, **426**, 428
Bubb, K. *See under* Hillier, L W, **424**, 157
Bucci, M. Cell biology: Prion protein, too, shall pass, *News and views*, **421**, 907
Cell biology: Fats-track for actin, *News and views*, **422**, 577
Buchan, J C. True paternal care in a multi-male primate society (*with* Alberts, S C, Silk, J B, Altmann, J), *Letter to Nature*, **425**, 179
Buchanan, M. Think outside the sandbox, *News feature*, **425**, 556
Bucher, E. *See under* Schön, J H, **422**, 93
Buck, J R. *See under* McKeever, J, **425**, 268
Buckling, A. Erratum: The role of parasites in sympatric and allopatric host diversification (*with* Rainey, P B), *Letter to Nature*, **421**, 294
Bucksbaum, P H. Attophysics: Ultrafast control, *News and views*, **421**, 593
Budker, D. Atomic physics: A new spin on magnetometry, *News and views*, **422**, 574
Buehler, M J. Hyperelasticity governs dynamic fracture at a critical length scale (*with* Abraham, F F, Gao, H), *Article*, **426**, 141
Bueno, A. *See under* Calzada, A, **426**, 584
Buffelli, M. Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition (*with* Burgess, R W, Feng, G, Lobe, C G, Lichtman, J W, Sanes, J R), *Letter to Nature*, **424**, 430
Bugianesi, R. *See under* Serafini, M, **424**, 1013
Buhre, S. *See under* Foley, S F, **421**, 249
Buhrman, R A. *See under* Kiselev, S I, **425**, 380
Buie, M W. *See under* Elliot, J L, **424**, 165
Bukreeva, O M. *See under* Milner-Gulland, E J, **422**, 135
Bull, J. Epidemics-in-waiting (*with* Dykhuizen, D), *News and views*, **426**, 609
Bullock, R M. *See under* Dioumaev, V K, **424**, 530
Bunce, M. Extreme reversed sexual size dimorphism in the extinct New Zealand moa Dinornis (*with* Worthy, T H, Ford, T, Hoppitt, W, Willerslev, E, Drummond, A, Cooper, A), *Letter to Nature*, **425**, 172
Bunge, M. Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium (*with* Adrian, L, Kraus, A, Opel, M, Lorenz, W G, Andreesen, J R, Görlsch, H, Lechner, U), *Letter to Nature*, **421**, 357
Burbank, D W. Decoupling of erosion and precipitation in the Himalayas (*with* Blythe, A E, Putkonen, J, Pratt-Sitaula, B, Gabet, E, Oskin, M, Barros, A, Ojha, T P), *Letter to Nature*, **426**, 652
Burbanks, A D. *See under* Astakhov, S A, **423**, 264
Burdon, R. The Suffering Gene: Environmental Threats to our Health, *Book review by* Cox, R, **425**, 346
Burford, D C. *See under* Mungall, A J, **425**, 805
Burgan, M F. *See under* Gaucher, E A, **425**, 285
Burgay, M. An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system (*with* D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R), *Letter to Nature*, **426**, 531
Burgess, N. *See under* Huxter, J, **425**, 828
Burgess, R W. *See under* Buffelli, M, **424**, 430
Burgess, S A. Dynein structure and power stroke (*with* Walker, M L, Sakakibara, H, Knight, P J, Olwa, K), *Article*, **421**, 715
Burguillos, L. *See under* Sucre, M G, **422**, 257
Burke, D. *See under* Nicastro, F, **421**, 719
Burke, T. *See under* Richardson, D S, **422**, 580
Burkhardt, C. *See under* Serini, G, **424**, 391, **424**, 974
Burkholder, S G. *See under* Watkins, D N, **422**, 313
Burns, J A. The Big Splat: or How Our Moon Came to Be (*by* Mackenzie, D), *Book review*, **425**, 664
Burns, M M. *See under* Yoder, A D, **421**, 734
Burrill, W. *See under* Mungall, A J, **425**, 805
Burrows, F J. *See under* Kamal, A, **425**, 407
Burrows, M. Froghopper insects leap to new heights, *Brief communication*, **424**, 509
Burstein, E. *See under* Ganesh, L, **426**, 853
Burton, J. *See under* Mungall, A J, **425**, 805
Busch-Nentwich, E. *See under* Knaut, H, **421**, 279
Bush, J W M. *See under* Hu, D L, **424**, 663
Bush, K T. *See under* Li, X, **426**, 247
Bush, R M. *See under* Ferguson, N M, **422**, 428
Busino, L. Degradation of Cdc25A by β-TrCP during S phase and in response to DNA damage (*with* Donzelli, M, Chiesa, M, Guardavaccaro, D, Ganoth, D, Dorrello, N V, Hershko, A, Pagano, M, Draetta, G F), *Letter to Nature*, **426**, 87
Bussolino, F. *See under* Serini, G, **424**, 391, **424**, 974
Bustamante, C. Ten years of tension: single-molecule DNA mechanics (*with* Bryant, Z, Smith, S B), *Feature*, **421**, 423
See under Bryant, Z, **424**, 338
Buston, P. Size and growth modification on clownfish, *Brief communication*, **424**, 145

Butler, C A. *See under* Garg, V, **424**, 443
Butler, D. *See under* Adam, D, **421**, 102
Safety doubts force rethink of embattled comet mission, *News*, **421**, 198
Paris university blasted over Israel motion, *News*, **421**, 200
Failed mission launch prompts ESA to reconsider comet target, *News*, **421**, 301
Report backs military axis on space, *News*, **421**, 301
Mozambique prime minister tipped for global health post, *News*, **421**, 302
Gates ploughs millions into plan for assault on killer diseases, *News*, **421**, 461
TB medic wins global health post, *News*, **421**, 463
Shuttle inquiry to piece disaster together from the ground up, *News*, **421**, 677
Ministers back gene-crop advisers, *News*, **421**, 775
Academics wrestle with issue of Islam's flagging science base, *News*, **422**, 101
Allies will expose Iraq's weapons, says Blix, *News*, **422**, 550
Flight records reveal full extent of Agent Orange contamination, *News*, **422**, 649
Agent Orange health investigation stuck at square one, *News*, **422**, 793
Tomorrow's computing today, *News feature*, **422**, 799
Commission lays foundations for rise in research spending, *News*, **423**, 6
French researchers demand radical overhaul of funding, *News*, **423**, 6
France purges space programme in bid to survive budget crisis, *News*, **423**, 103
See under Brumfiel, G, **423**, 211
Lack of trust hampers hunt for weapons, *News*, **423**, 371
Spiralling costs dog comet mission, *News*, **423**, 372
Iraqi science faces lonely road to recovery, *News*, **423**, 468
Are you on board?, *News feature*, **423**, 476
Quake triggers research expedition, *News*, **423**, 673
Tribunal clears obesity researcher of fraud, *News*, **424**, 6
Raiding the medicine cabinet, *News feature*, **424**, 10
Science shunted to the sidelines as EU sets out its space agenda, *News*, **424**, 115
Drive for patent-free innovation gathers pace, *News*, **424**, 118
WHO prepares for final push to rid the world of polio, *News*, **424**, 604
Europe insists fusion-project race remains wide open, *News*, **424**, 867
Heatwave underlines climate-model failures, *News*, **424**, 867
Business backlash kills off software meeting, *News*, **424**, 984
Experts fear network paralysis as computer worms blast Internet, *News*, **425**, 3
Academics sidelined in battle against computer worms, *News*, **425**, 228
Gates steps up war on malaria with donation of $168 million, *News*, **425**, 331
Open-access row leads paper to shed authors, *News*, **425**, 334
Mosquito production mooted as fast track to malaria vaccine, *News*, **425**, 437
Wellcome to fund publication in open-access journals, *News*, **425**, 440
Biologists join physics preprint club, *News*, **425**, 548
Who will pay for open access?, *News feature*, **425**, 554
Medical journal under attack as dissenters seize AIDS platform, *News*, **426**, 215
France and Japan lock horns in battle to host research reactor, *News*, **426**, 483
Developing-world health: the fightback starts here, *News feature*, **426**, 754
Butler, J. *See under* Galagan, J E, **422**, 859
Butterfield, D A. *See under* Lilley, M D, **422**, 878
Buttery, H. *See under* Fox, D W, **422**, 284
Buttery, R. Europe's fusion-reactor plans depend on JET, *Correspondence*, **424**, 995
Buttiker, M. Optics: Ado about nothing much? (*with* Washburn, S), *News and views*, **422**, 271
Reply: Optics: Mechanism for 'superluminal' tunnelling (*with* Washburn, S), *Brief communication*, **424**, 638
Buys, N. *See under* Van Laere, A-S, **425**, 832
Buzsáki, G. *See under* Klausberger, T, **421**, 844
See under Harris, K D, **424**, 552
Bynum, W F. *See under* Heilbron, J L, **421**, 15
The Deadly Truth: A History of Disease in America (*by* Grob, G), *Book review*, **423**, 19
Pioneers of Microbiology and the Nobel Prize (*by* Lagerkvist, U), *Book review*, **426**, 604, **426**, 761
Byrne, M. *See under* Dacke, M, **424**, 33
Byrum, C A. *See under* Wikramanayake, A H, **426**, 446

Cabezas, E. *See under* Guo, B, **423**, 456
Cabezon, E. *See under* Martinez, L O, **421**, 75
Cabrera, J L. Venezuelan government is backing science (*with* Guerrero, L E, Donoso, A), *Correspondence*, **421**, 786
Caccavari, F. *See under* Serini, G, **424**, 391, **424**, 974
Cadene, M. *See under* Jiang, Y, **423**, 33
Cadieu, E. *See under* Wood, V, **421**, 94
Cai, M. *See under* Kalnay, E, **423**, 528, **425**, 102
Cai, Ti. *See under* Dajee, M, **421**, 639
Cai, Z. *See under* Ren, S-X, **422**, 888
Calabrese, E J. Toxicology rethinks its central belief (*with* Baldwin, L A), *Commentary*, **421**, 691
Caldarelli, G. *See under* Garlaschelli, D, **423**, 165
Caldeira, K. Anthropogenic carbon and ocean pH (*with* Wickett, M E), *Brief communication*, **425**, 365
Calder, N. Magic Universe: The Oxford Guide to Modern Science (*with* Wade, N), *Book review*, **425**, 241
Calderon, H. *See under* Sicardy, B, **424**, 168
Callaerts, P. *See under* Lee, P N, **424**, 1061
Callaghan, T V. *See under* Johnson, D, **423**, 138
Callaway, E M. *See under* Chatterjee, S, **426**, 668
Calsbeek, R. Ocean currents mediate evolution in islands lizards (*with* Smith, T B), *Letter to Nature*, **426**, 552
Calvi, L M. Osteoblastic cells regulate the haematopoietic stem cell niche (*with* Adams, G B, Weibrecht, K W, Weber, J M, Olson, D P, Knight, M C, Martin, R P, Schipani, E, Divieti, P, Bringhurst, F R, Milner, L A, Kronenberg, H M, Scadden, D T), *Letter to Nature*, **425**, 841
Calvo, S E. *See under* Galagan, J E, **422**, 859
Calzada, A. Corrigendum: Cdc6 cooperates with Sic1 and Hct1 to inactivate mitotic cyclin-dependent kinases (*with* Sacristan, M, Sanchez, E, Bueno, A), *Letter to Nature*, **426**, 584
Cameron, D R. *See under* Lamarre, D, **426**, 186, **426**, 314
Cameron, L A. *See under* Canman, J C, **424**, 1074
Camilo, F. *See under* Burgay, M, **426**, 531
Campbell, B A. Radar imaging of the lunar poles (*with* Campbell, D B, Chandler, J F, Hine, A A, Nolan, M C, Perillat, P J), *Brief communication*, **426**, 137
Campbell, C D. *See under* Johnson, D, **423**, 138
Campbell, D B. *See under* Campbell, B A, **426**, 137
Campbell, I D. *See under* Schwarz-Linek, U, **423**, 177
Campbell, K P. *See under* Bansal, D, **423**, 168
Campbell, P. *See under* Dennis, C, **421**, 396
Campbell, S. Flaws undermine results of UK biotech debate (*with* Townsend, E), *Correspondence*, **425**, 559
Campos, R. *See under* Sicardy, B, **424**, 168
Campuzano, J C. *See under* Souma, S, **423**, 65
Canaani, E. *See under* Sedkov, Y, **426**, 78
Candelon, B. *See under* Ivanova, N, **423**, 87
Canet, D. *See under* Dumoulin, M, **424**, 783
Canfield, D E. *See under* Dalsgaard, T, **422**, 606
Canman, J C. Determining the position of the cell division plane (*with* Cameron, L A, Maddox, P S, Straight, A, Tirnauer, J S, Mitchison, T J, Fang, G, Kapoor, T M, Salmon, E D), *Letter to Nature*, **424**, 1074
Cann, J R. *See under* Perfit, M R, **426**, 62
Cann, R. Reflections on our Past: How Human History is Revealed in Our Genes (*by* Relethford, J H), *Book review*, **423**, 117
The Journey of Man: A Genetic Odyssey (*by* Wells, S), *Book review*, **423**, 117
Cannons, J. *See under* Crotty, S, **421**, 282
Cantarella, G. *See under* Kovalenko, A, **424**, 801
Cantor, C R. *See under* Blake, W J, **422**, 633
Cao, Y C. *See under* Jin, R, **425**, 487
Caplan, J B. *See under* Ekstrom, A D, **425**, 184
Caputo, P. *See under* Bozovic, I, **422**, 873
Caraveo, P A. *See under* Bignami, G F, **423**, 725
Carbone, F. *See under* van der Marel, D, **425**, 271
Carbone, F R. *See under* Heath, W R, **425**, 460
Carder, C. *See under* Mungall, A J, **425**, 805
Carelli, R M. *See under* Phillips, P E M, **422**, 614, **423**, 461
Cariaga, K. *See under* Thomas, J W, **424**, 788
Carilli, C. *See under* Walter, F, **424**, 406
See under Solomon, P, **426**, 636
Carlip, S. Cosmology: Do black holes constrain varying constants? (*with* Vaidya, S), *Brief communication*, **421**, 498
Carlowicz, M J. Storms from the Sun: The Emerging Science of Space Weather (*with* Lopez, R E), *Book review by* Singer, H J, **422**, 21
Carlson, P. *See under* Casolino, M, **422**, 680
Carlson, R W. *See under* Wilson, A H, **423**, 858
Carlsson, C. Cancer: Genetic prescription, *News and views*, **423**, 496
Carman, C V. *See under* Neumann, C A, **424**, 561
Carmeliet, P. *See under* Conway, E M, **425**, 139
Carmichael, H. Quantum optics: Single atom lases orderly light (*with* Orozco, L A), *News and views*, **425**, 246
Carnahan, M A. *See under* Kaindl, R A, **423**, 734
Caro, G. ^{146}Sm-^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle (*with* Bourdon, B, Birck, J-L, Moorbath, S), *Letter to Nature*, **423**, 428
Corrigendum: ^{146}Sm-^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle (*with* Bourdon, B, Birck, J-L, Moorbath, S), *Letter to Nature*, **424**, 974
Caron, G. *See under* Mangeat, B, **424**, 99
Carpena, P. Retraction: Metal-insulator transition in chains with correlated disorder (*with* Bernaola-Galvan, P, Ivanov, P Ch, Stanley, H E), *Letter to Nature*, **421**, 764
Carpenter, S J. Migration of a Late Cretaceous fish (*with* Erickson, J M, Hollan Jr, F D), *Letter to Nature*, **423**, 70
Carr, P. *See under* d'Adda di Fagagna, F, **426**, 194
Carr, R. *See under* van Montfort, R L M, **423**, 773
Carrasco, D R. *See under* Wong, K-K, **421**, 643
Carrasco, H J. *See under* Gaunt, M W, **421**, 936
Carrillo, S. *See under* Sicardy, B, **424**, 168
Carrington, A. *See under* Hussey, N E, **425**, 814
Carrington, J C. *See under* Palatnik, J F, **425**, 257
Carroll, A S. *See under* Huh, W-K, **425**, 686
Carroll, K. *See under* Straume, T, **424**, 539
Carroll, S. Cosmology: Filling in the background, *News and views*, **422**, 26
Echo of the big bang (*by* Lemonick, M), *Book review*, **424**, 373
Quantum gravity: An astrophysical constraint, *News and views*, **424**, 1007
Carroll, S B. Genetics and the making of *Homo sapiens*, *Review article*, **422**, 849
See under Gompel, N, **424**, 931
See under Rokas, A, **425**, 798
Carson, D J. *See under* Ueda, H, **423**, 506
Carson, S. US federal funding ban puts babies at risk (*with* Brzyski, R), *Correspondence*, **423**, 381
Carter, N P. *See under* Mungall, A J, **425**, 805
See under d'Adda di Fagagna, F, **426**, 194
Carthew, R W. *See under* Takemaru, K-I, **422**, 905
Cartier, M. *See under* Lamarre, D, **426**, 186, **426**, 314
Carvajal, A. *See under* Sicardy, B, **424**, 168
Casella, P. *See under* Nicastro, F, **421**, 719
Casolino, M. Space travel: Dual origins of light flashes seen in space (*with* Bidoli, V, Moreelli, A, Narici, L, De Pascale, M P, Picozza, P, Reali, E, Sparvoli, R, Mazzenga, G, Ricci, M, Spillantini, P, Boezio, M, Bonvicini, V, Vacchi, A, Zampa, N, Castellini, G, Sannita, W G, Carlson, P, Galper, A, Korotkov, M, Popov, A, Vavilov, N, Avdeev, S, Fuglesang, C), *Brief communication*, **422**, 680
Cassman, K G. *See under* Tilman, D, **422**, 398
Castander, F J. *See under* Inada, N, **426**, 810
Castellini, G. *See under* Casolino, M, **422**, 680
Castner, D G. Surface science: View from the edge, *News and views*, **422**, 129
Castro Ceron, J M. *See under* Hjorth, J, **423**, 847
Castro, P. *See under* Jepson, P D, **425**, 575
Castro-Tirado, A J. *See under* Hjorth, J, **423**, 847
Catcheside, D. *See under* Galagan, J E, **422**, 859
Catherall, A T. Floating gold in cryogenic oxygen (*with* Eaves, L, King, P J, Booth, S R), *Brief communication*, **422**, 579
Catlett, N L. *See under* Tang, F, **422**, 87
Cattolico, L. *See under* Heilig, R, **421**, 601
Catton, C. Illustration: database pictures tell a true story (*with* Shotton, D), *Correspondence*, **422**, 374
Caudy, A M. A micrococcal nuclease homologue in RNAi effector complexes (*with* Ketting, R F, Hammond, S M, Denli, A M, Bathoorn, A M P, Tops, B J B, Silva, J M, Myers, M M, Hannon, G J, Plasterk, R H A), *Letter to Nature*, **425**, 411
Caughey, B. Prion diseases: A nucleic-acid accomplice (*with* Kocisko, D A), *News and views*, **425**, 673
Cava, R J. *See under* Wang, Y, **423**, 425
See under Schaak, R E, **424**, 527
Cavadini, N. *See under* Rüegg, Ch, **423**, 62
Cavalleri, A. *See under* Sokolowski-Tinten, K, **422**, 287
Cavalli-Sforza, L L. *See under* McIntire, J J, **425**, 576
Cavanagh, L L. *See under* Mora, J R, **424**, 88
Cavender, J C. *See under* Ansley, S J, **425**, 628
Cavet, G. *See under* Schadt, E E, **422**, 297
Cecchi-Pestellini, C. *See under* Nicastro, F, **421**, 719
Cech, T R. *See under* Lei, M, **426**, 198
Ceci, M. Release of eIF6 (p27BBP), from the 60S subunit allows 80S ribosome assembly (*with* Gaviraghi, C, Gorrini, C, Sala, L A, Offenhauser, N, Marchisio, P C, Biffo, S), *Letter to Nature*, **426**, 579
Cerdán, P D. Regulation of flowering time by light quality (*with* Chory, J), *Letter to Nature*, **423**, 881
Cerf, N J. *See under* Grosshans, F, **421**, 238
Cerutti, L. *See under* Wood, V, **421**, 94
Cervelli, P. *See under* Miklius, A, **421**, 229
Cervera, P. *See under* Holzenberger, M, **421**, 182
Chable-Bessia, C. *See under* Kovalenko, A, **424**, 801
Chabre, M. Biophysics: Is rhodopsin dimeric in native retinal rods? (*with* Cone, R, Saibil, H), *Brief communication*, **426**, 30
Chacinska, A. *See under* Wiedemann, N, **424**, 565
Chacron, M J. *See under* Doiron, B, **421**, 539
Non-classical receptive field mediates switch in a sensory neuron's frequency tuning (*with* Doiron, B, Maler, L, Longtin, A, Bastian, J), *Letter to Nature*, **423**, 77
Addendum: Non-classical receptive field mediates switch in a sensory neuron's frequency tuning (*with* Doiron, B, Maler, L, Longtin, A, Bastian, J), *Letter to Nature*, **423**, 1018
Chae, H K. *See under* Yaghi, O M, **423**, 705
Chahl, J S. *See under* Mizutani, A, **423**, 604
Chaimanee, Y. A Middle Miocene hominoid from Thailand and orangutan origins (*with* Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J), *Letter to Nature*, **422**, 61
Chain, P. *See under* Palenik, B, **424**, 1037
See under Rocap, G, **424**, 1042
Chait, B T. *See under* Jiang, Y, **423**, 33
Chakrabarty, D. Nuclear-powered millisecond pulsars and the maximum spin frequency of neutron stars (*with* Morgan, E H, Muno, M P, Galloway, D K, Wijnands, R, van der Klis, M, Markwardt, C B), *Letter to Nature*, **424**, 42
See under Wijnands, R, **424**, 44
Chakravarti, A. Nature, nurture and human disease (*with* Little, P), *Feature*, **421**, 412
See under Thomas, J W, **424**, 788
Chalfie, M. *See under* Taub, J, **421**, 764
Chalmers, J. Audubon in Edinburgh: and his Scottish Associates, *Book review by* Knight, D, **426**, 767
Chamberlain, G. *See under* Ueda, H, **423**, 506
Chambon, P. *See under* Ohtake, F, **423**, 545
Chamla, D S. *See under* Kaindl, R A, **423**, 734
Chamorro, E M. *See under* Brooker, R A, **423**, 738
Champagne, E. *See under* Martinez, L O, **421**, 75
Champness, N R. *See under* Theobold, J A, **424**, 1029
Chan, A. *See under* Chan, R C, **423**, 1002
Chan, A C. *See under* Kemper, C, **421**, 388
Chan, B. *See under* Hu, D L, **424**, 663
Chan, H W. *See under* Long, J C, **421**, 922

Chan, R C. Chromosome cohesion is regulated by a clock gene paralogue TIM-1 (*with* Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J), *Letter to Nature*, **423**, 1002
Chandler, J F. *See under* Campbell, B A, **426**, 137
Chandre, F. *See under* Weill, M, **423**, 136, **425**, 366
Chang, F Y. *See under* Ashrafi, K, **421**, 268
Chang, L. *See under* Inoue, M, **422**, 629
Chang, P Y. *See under* Wang, C-T, **424**, 943
Channer, D M De R. *See under* Schulze, D J, **423**, 68
Chapman, B A. *See under* Bowers, J E, **422**, 433
Chapman, C R. No reduction in risk of a massive asteroid impact (*with* Morrison, D), *Correspondence*, **421**, 473
Chapman, E R. *See under* Wang, C-T, **424**, 943
Chapman, J C. *See under* Mungall, A J, **425**, 805
Chapman, S C. A median redshift of 2.4 for galaxies bright at submillimetre wavelengths (*with* Blain, A W, Ivison, R J, Small, I R), *Letter to Nature*, **422**, 695
See under Price, P A, **423**, 844
Charalambidis, D. *See under* Tzallas, P, **426**, 267
Charbonneau, D. Astronomy: Atmosphere out of that world, *News and views*, **422**, 124
Charlebois, R L. Branching out (*with* Beiko, R G, Ragan, M A), *Concepts*, **421**, 217
Charles, C D. *See under* Cobb, K M, **424**, 271
Charnov, E L. *See under* Gillooly, J F, **424**, 270
Chastel, O. *See under* Weimerskirch, H, **421**, 333
Chater, R J. *See under* Ryan, M P, **424**, 390
Chatterjee, A. *See under* Panda, S, **423**, 685
Chatterjee, S. Parallel colour-opponent pathways to primary visual cortex (*with* Callaway, E M), *Letter to Nature*, **426**, 668
Chattopadhyay, S. Leading edge lasers, *Correspondence*, **422**, 469
Chaudhuri, J. Transcription-targeted DNA deamination by the AID antibody diversification enzyme (*with* Tian, M, Khuong, C, Chua, K, Pinaud, E, Alt, F W), *Letter to Nature*, **422**, 726
Chaudhury, M K. Complex fluids: Spread the word about nanofluids, *News and views*, **423**, 131
Chazdon, R L. Foundations of Tropical Forest Biology: Classic Papers with Commentaries (*with* Whitmore, T C), *Book review by* Zagt, R J, **421**, 20
Che, N. *See under* Schadt, E E, **422**, 297
Check, E. Share slump brings biotech firms to government's door, *News*, **423**, 908
Back to 'plan A', *News feature*, **423**, 912
Biotech critic tries to sew up research on chimaeras, *News*, **421**, 4
Law sends laboratories into pathogen panic, *News*, **421**, 4
Biologists seek blueprint for international stem-cell effort, *News*, **421**, 102
US officials urge biologists to vet publications for bioterror risk, *News*, **421**, 197
Report backs Smithsonian research, *News*, **421**, 198
Second cancer case halts gene-therapy trials, *News*, **421**, 305
UK cell biologist takes pole position at Rockefeller, *News*, **421**, 461
Biologists wary that cash up front could mean cuts later, *News*, **421**, 677
Cancer fears casts doubts on future of gene therapy, *News*, **421**, 678
Journals tighten up on biosecurity, *News*, **421**, 774
Cancer risk prompts US to curb gene therapy, *News*, **422**, 7
Biodefence plans earn lukewarm response from US academics, *News*, **422**, 245
On the trail of better treatment, *News*, **422**, 245
Battle of the mind, *News feature*, **422**, 370
Trial suggests vaccines could aid HIV therapy, *News*, **422**, 650
US debates future of Iraqi scientists, *News*, **422**, 789
National Academics launch grants for interdisciplinary work, *News*, **422**, 791
Homeland science chief wants quick fixes, *News*, **423**, 106
AIDS researchers seek criteria for vaccines, *News*, **423**, 107
Harmful potential of viral vectors fuels doubts over gene therapy, *News*, **423**, 573
US army attacked over published patent for 'bioweapons grenade', *News*, **423**, 789
Biologists disappointed as NIH budget falls flat, *News*, **423**, 905
Anger mounts over cutbacks at US army pathology lab, *News*, **424**, 4
AIDS research cut to pay for anthrax vaccine, *News*, **424**, 241
HIV drug triggers strategic switch, *News*, **424**, 361
Expert panel retreats from major restructuring in blueprint for NIH, *News*, **424**, 475
Bush accused of power abuse over science, *News*, **424**, 715
Bioweapons initiatives bogged down in talks, *News*, **424**, 865
Accrued HIV evidence turns treatment dogma on its head, *News*, **424**, 866
Biophysicist names to run basic-research arm of NIH, *News*, **424**, 984
Research mired in Homeland Security delays, *News*, **424**, 986
Parkinson's transplant therapy faces setback, *News*, **424**, 987
Peers rally in support of accused scientist, *News*, **425**, 5
RNA to the rescue?, *News feature*, **425**, 10
Vaccine claim lifts company's stock but angers researchers, *News*, **425**, 332
DNA lab welcomes Dalai Lama to Tibetan science community, *News*, **425**, 335
NIH 'roadmap' charts course to tackle big research issues, *News*, **425**, 438
Harvard heralds fresh take on systems biology, *News*, **425**, 439
Health chiefs poised to step up US scrutiny of microbe research, *News*, **425**, 647
Consumers warned that time is not yet ripe for nutrition profiling, *News*, **426**, 107
Task force set up to combat threat of political interference, *News*, **426**, 218
Plague trial verdict leaves biologists split on biodefence, *News*, **426**, 593
Boom, or bust?, *News feature*, **426**, 598
Chen, A. *See under* Hirotsune, S, **423**, 91, **426**, 100
Chen, A B. *See under* Su, H T, **423**, 974
Chen, C-C. *See under* Bansal, D, **423**, 168
Chen, H. *See under* Dadson, S J, **426**, 648
Chen, J. *See under* Lou, Z, **421**, 957
See under Ruta, V, **422**, 180
See under Jiang, Y, **423**, 33, **423**, 42
Xpd/Ercc2 regulates CAK activity and mitotic progression (*with* Larochelle, S, Li, X, Suter, B), *Letter to Nature*, **424**, 228
See under Duan, X, **425**, 274
Chen, J Q. *See under* Tian, D, **423**, 74
Chen, L. *See under* Shu, D-G, **421**, 526
See under Han, A, **422**, 730
Chen, M-C. *See under* Dadson, S J, **426**, 648
Chen, N-J. *See under* Yeh, W-C, **424**, 736
Chen, X. *See under* Mamdouh, Z, **421**, 748
Chen, X S. *See under* Li, D, **423**, 512, **425**, 102
Chen, Y. *See under* Cua, D J, **421**, 744
Electronic paper: Flexible active-matrix electronic ink display (*with* Au, J, Kazlas, P, Ritenour, A, Gates, H, McCreary, M), *Brief communication*, **423**, 136
Cheng, H. *See under* Cobb, K M, **424**, 271
Cherbas, L. *See under* Sedkov, Y, **426**, 78
Cherbas, P. *See under* Sedkov, Y, **426**, 78
Cherfils, J. *See under* Renault, L, **426**, 525
Cherkaoul, A. *See under* Fisher, A T, **421**, 618
Cherny, V V. *See under* DeCoursey, T E, **422**, 531
Cherry, M. Genetics to unlock secrets of our African past, *News*, **422**, 460
African states pledge increased spending on research, *News*, **426**, 109
Chiang, S-H. *See under* Inoue, M, **422**, 629
Chieffi, A. *See under* Bonifacio, P, **422**, 834
Chien, P. Generation of prion transmission barriers by mutational control of amyloid conformations (*with* DePace, A H, Collins, S R, Weissman, J S), *Letter to Nature*, **424**, 948
Chiesa, M. *See under* Busino, L, **426**, 87
Child, B. Biodiversity, Sustainability and Human Communities: Protecting Beyond the Protected (*by* O'Riordan, T, Stoll-Kleemann, S), *Book review*, **421**, 113
Chillingworth, T. *See under* Wood, V, **421**, 94
Chinwalla, A. *See under* Skaletsky, H, **423**, 825
Chinwalla, A T. *See under* Hillier, L W, **424**, 157
Chisholm, S W. *See under* Rocap, G, **424**, 1042
See under Sullivan, M B, **424**, 1047, **426**, 584
Chissoe, S L. *See under* Hillier, L W, **424**, 157
Chiti, F. Rationalization of the effects of mutations on peptide and protein aggregation rates (*with* Stefani, M, Taddei, N, Ramponi, G, Dobson, C M), *Letter to Nature*, **424**, 805
Chittaro, P M. *See under* Mora, C, **421**, 933
Chittka, L. *See under* Heiling, A M, **421**, 334
Psychophysics: Bees trade off foraging speed for accuracy (*with* Dyer, A G, Bock, F, Dornhaus, A), *Brief communication*, **424**, 388
Chiu, D T. *See under* Shelby, J P, **425**, 38
Chiu, K. *See under* Inada, N, **426**, 810
Chiu, M L. *See under* Wang, X, **424**, 456
Chiu, V K. *See under* Bivona, T G, **424**, 694
Cho, E. *See under* Sedkov, Y, **426**, 78
Cho, H-S. Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab (*with* Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J), *Letter to Nature*, **421**, 756
Cho, J M. *See under* Sung, B-J, **425**, 98
Cho, K-S. *See under* Redl, F X, **423**, 968
Choe, H. *See under* Li, W, **426**, 450
Choi, C H. Transcription factor IIB acetylates itself to regulate transcription (*with* Hiromura, M, Usheva, A), *Letter to Nature*, **424**, 965
Choi, H. *See under* Lee, Y, **425**, 415
Choi, H-J. *See under* Goldberger, J, **422**, 599
Choi, K-H. *See under* Sutton, M A, **421**, 70
Choi, S. *See under* Kim, J, **424**, 81
Chong, A. *See under* Houston, F, **423**, 498
Choquet, Y. *See under* Stroebel, D, **426**, 413
Chory, J. *See under* Strand, Å, **421**, 79
See under Cerdán, P D, **423**, 881
Chou, C W. *See under* Kuzmich, A, **423**, 731
Chow, R H. *See under* Duncan, R R, **422**, 176
Christen, U. *See under* Janssen, E M, **421**, 852
Christensen, J H. Severe summertime flooding Europe (*with* Christensen, O B), *Brief communication*, **421**, 805
Christensen, O B. *See under* Christensen, J H, **421**, 805
Christensen, P R. *See under* Hamilton, V E, **421**, 711
Formation of recent Martian gullies through melting of extensive water-rich snow deposits, *Letter to Nature*, **422**, 45
Christensen, S. *See under* Kawai, H, **421**, 287
Christian, R. *See under* Stellman, J M, **422**, 681
Christiansen, L. *See under* Fisher, A T, **421**, 618
Christie-Blick, N. *See under* Jiang, G, **426**, 822
Christodoulides, D M. Discretizing light behaviour in linear and nonlinear waveguide lattices (*with* Lederer, F, Silberberg, Y), *Insight review article*, **424**, 817
Christodoulides, D N. *See under* Fleischer, J W, **422**, 147
Christov, I P. *See under* Paul, A, **421**, 51
Chu, L. *See under* Ivanova, N, **423**, 87
Chua, K. *See under* Chaudhuri, J, **422**, 726
Chua, N-H. *See under* Seo, H S, **423**, 995
Chuang, I L. *See under* Guide, S, **421**, 48
Chubb, J C. *See under* Parker, G A, **425**, 480
Chung, P. *See under* Howitz, K T, **425**, 191
Chung, Y. *See under* Ji, Y, **422**, 415
Chung, Y D. *See under* Kim, J, **424**, 81
Churakova, T. *See under* Cua, D J, **421**, 744
Churcher, C. *See under* Wood, V, **421**, 94
Churnside, A B. *See under* Long, J C, **421**, 922
Cinnioglu, C. *See under* McIntire, J J, **425**, 576
Cipriani, A. *See under* Bonatti, E, **423**, 499
Clack, J A. A uniquely specialized ear in early tetrapod (*with* Ahlberg, P E, Finney, S M, Dominguez Alonso, P, Robinson, J, Ketcham, R A), *Letter to Nature*, **425**, 65
Clamp, M E. *See under* Mungall, A J, **425**, 805
Clancy, K B. *See under* Elliot, J L, **424**, 165
Clark, A T. *See under* Kile, B T, **425**, 81
Clark, E V. Constructing a Language: A Usage-Based Theory of Language Acquisition (*by* Tomasello, M), *Book review*, **425**, 768
Clark, G. *See under* Mungall, A J, **425**, 805
Clark, J D. Stratigraphic, chronological and behavioural contexts of Pleistocene *Homo sapiens* from Middle Awash, Ethiopia (*with* Beyene, Y, WoldeGabriel, G, Hart, W K, Renne, P R, Gilbert, H, Defleur, A, Suwa, G, Katoh, S, Ludwig, K R, Boisserie, J-R, Asfaw, B, White, T D), *Letter to Nature*, **423**, 747
Clark, J S. Stability of forest biodiversity (*with* McLachlan, J S), *Letter to Nature*, **423**, 635
Clark, J T. *See under* Niewoehner, W A, **422**, 395
Clark, S Y. *See under* Mungall, A J, **425**, 805
Clarke, A. Natural-born Cyborgs: Minds, Technologies, and the future of Human Intelligence, *Book review by* Ihle, D, **424**, 615
Clarke, J. *See under* Williams, P M, **422**, 446
Condensed-matter physics: Vortices and hearts, *News and views*, **425**, 133
Clarke, M F. *See under* Park, I-K, **423**, 302
Clarke, T. Atmospheric science: Lightning satellite survey, *News and views*, **421**, 228
Robots in the deep, *News feature*, **421**, 468
Astronomy: Star formation out at the edges, *News and views*, **421**, 493
Epidemiology: Conditions for dengue fever, *News in brief*, **421**, 493
Earth science: Getting the measure of creep, *News and views*, **421**, 709
Planetary science: Moons on the wander, *News and views*, **421**, 907
Astronomy: The long and the short of it, *News and views*, **422**, 33
Delta blues, *News feature*, **422**, 254
Earth science: Steam flow and shaken soil, *News and views*, **422**, 393
Cancer conference scrapped as outbreak intensifies, *News*, **422**, 547
Infection risk puts the brakes on Canada's biomedical research, *News*, **422**, 652
Biologists deploy database to quash drug-resistant bacteria, *News*, **422**, 791
Environmental science: Shades of China, *News and views*, **423**, 134
Copied citations give impact factors a boost, *News*, **423**, 373
Earth science: Core effect, *News and views*, **423**, 496
Climate change: Hot tips on temperature, *News and views*, **423**, 598
Virology: Pigs duck out of the influenza mix, *News and views*, **423**, 702
Clinical data marshalled to treat HIV, *News*, **423**, 791
Pest resistance feared as farmers flout rules, *News*, **424**, 116
Is the outbreak finally over?, *News feature*, **424**, 122
What about a vaccine?, *News feature*, **424**, 126
Earth science: High expectations, *News and views*, **424**, 143
Seed bank raises hope of Iraqi crop comeback, *News*, **424**, 242
Microbiology: Prion as passport, *News and views*, **424**, 385
Whale genetics study leaves conservationists all at sea (*with* Knight, J), *News*, **424**, 479
Animal behaviour: Bowerbirds blues, *News and views*, **424**, 507
Fast vaccine offers hope in battle with Ebola (*with* Knight, J), *News*, **424**, 602
Drug companies snub antibiotics as pipeline threatens to run dry, *News*, **425**, 225
African institute ready for meeting of mathematical minds, *News*, **425**, 228
Meteorology: Oscillating eyes, *News and views*, **425**, 253
Geologists seek to put an end to blind dates, *News*, **425**, 550
Hydrology: White Nile past, *News and views*, **426**, 136
Astronomy: Asteroids warm to analysis, *News and views*, **426**, 242
Virology: Smallpox selective potential, *News and views*, **426**, 618
Clausen, T. Reviewing should be shown in publication list (*with* Nielsen, O B), *Correspondence*, **421**, 689
Clay, K. Parasites lost, *News and views*, **421**, 585
Clay-Farrace, L. *See under* d'Adda di Fagagna, F, **426**, 194
Clayton, D G. *See under* Ueda, H, **423**, 506
Clee, C M. *See under* Mungall, A J, **425**, 805
Clegg, S. *See under* Mungall, A J, **425**, 805
Cleland, A N. *See under* Knobel, R G, **424**, 291
Clendenning, J. *See under* Hillier, L W, **424**, 157
Cleveland, C. *See under* Hall, C, **426**, 318

Clevers, H. *See under* Hurlstone, A F L, **425**, 633

Cliften, P F. *See under* Langkjaer, R B, **421**, 848

Clifton, S W. *See under* Hillier, L W, **424**, 157

Cline, R. *See under* Read, T D, **423**, 81

Clokie, M. *See under* Mann, N H, **424**, 741

Close, F. Particle physics: Strange days, *News and views*, **424**, 376

Cloutier, R. *See under* Miller, R F, **425**, 501

Clubb, R. Captivity effects on wide-ranging carnivores (*with* Mason, G), *Brief communication*, **425**, 473

Clyde, D E. A self-organizing system of repressor gradients establishes segmental complexity in *Drosophila* (*with* Corado, M S G, Wu, X, Pare, A, Papatsenko, D, Small, S), *Letter to Nature*, **426**, 849

Cobb, K M. El Niño/Southern Oscillation and tropical Pacific climate during the last millennium (*with* Charles, C D, Cheng, H, Edwards, R L), *Article*, **424**, 271

Cobb, M. Impact factors: letting everyone have their say, *Correspondence*, **424**, 487

Cobden, P M. *See under* Klausberger, T, **421**, 844

Cobley, V. *See under* Mungall, A J, **425**, 805

Coburn, W. Polarization of the prompt γ-ray emission from the γ-ray burst of 6 December 2002 (*with* Boggs, S E), *Letter to Nature*, **423**, 415

Cochrane, M A. Fire science for rainforests, *Review article*, **421**, 913

Cockell, C C. Impossible Extinction: Natural Catastrophes and the Supremacy of the Microbial World, *Book review by* Sleep, N H, **422**, 663

Coen, E. *See under* Rolland-Lagan, A-G, **422**, 161

Cogoni, C. *See under* Galagan, J E, **422**, 859

Cogswell, P C. *See under* Anest, V, **423**, 659

Cohen, A S. *See under* O'Reilly, C M, **424**, 766

Cohen, C. *See under* Li, Y, **424**, 341

Cohen, F E. Therapeutic approaches to protein-misfolding diseases (*with* Kelly, J W), *Insight review article*, **426**, 905

Cohen, H Y. *See under* Howitz, K T, **425**, 191

Cohen, J. Evolving the Alien: The Science of Extraterrestrial Life (*with* Stewart, I), *Book review by* Krauss, L M, **421**, 114

Cohen, J C. *See under* Garg, V, **424**, 443

Cohen, J S. Middle East: nothing to fear except terrorism, *Correspondence*, **426**, 227

Cohen, S M. Long-range signalling by touch, *News and views*, **426**, 503

Colas, F. *See under* Sicardy, B, **424**, 168

Cole, J. Global change: Dishing the dirt on coral reefs, *News and views*, **421**, 705

Cole, S T. Antibiotics: Actions, Origins, Resistance (*by* Walsh, C), *Book review*, **424**, 491

Coleman, J N. *See under* Dalton, A B, **423**, 703

Coleman, M. *See under* Rocap, G, **424**, 1042

Coleman, P. *See under* Custers, J, **424**, 524
Superconductivity: Lifting the gossamer veil, *News and views*, **424**, 625

Coles, P. Alpha and Omega: The Search for the Beginning and the End of the Universe (*by* Seife, C), *Book review*, **425**, 127

Colijn, H O. *See under* Meng, Q, **424**, 389

Colinayo, V. *See under* Schadt, E E, **422**, 297

Colladios, M. *See under* Solanki, S K, **425**, 692

Colleoni, S. *See under* Galli, C, **424**, 635, **425**, 680

Collet, X. *See under* Martinez, L O, **421**, 75

Collette, C. *See under* Van Laere, A-S, **425**, 832

Collier, R E. *See under* Mungall, A J, **425**, 805

Collinge, J. *See under* White, A R, **422**, 80

Collins, F S. A vision for the future of genomics research (*with* Green, E D, Guttmacher, A E, Guyer, M S), *Feature*, **422**, 835
See under Eriksson, M, **423**, 293

Collins, J E. *See under* Mungall, A J, **425**, 805

Collins, J J. Sync: The Emerging Science of Spontaneous Order (*by* Strogatz, S), *Book review*, **422**, 117
See under Blake, W J, **422**, 633

Collins, M. *See under* Wood, V, **421**, 94
See under Tudhope, S, **424**, 261

Collins, S. *See under* Dalton, A B, **423**, 703

Collins, S C. *See under* Verhagen, J V, **426**, 602

Collins, S R. *See under* Chien, P, **424**, 948

Collins, W. *See under* Vega, F E, **425**, 343

Colman, L K. *See under* Mungall, A J, **425**, 805

Colquhoun, D. Challenging the tyranny of impact factors, *Correspondence*, **423**, 479

Colson, I. *See under* Delneri, D, **422**, 68

Coltman, D W. Undesirable evolutionary consequences of trophy hunting (*with* O'Donoghue, P, Jorgensen, J T, Hogg, J T, Strobeck, C, Festa-Blanchet, M), *Letter to Nature*, **426**, 655

Comi, G. *See under* Pluchino, S, **422**, 688

Committee on the Physics of the Universe, National Research Council of the National Academics. Connecting Quarks With the Cosmos: Eleven Science Questions for the New Century, *Book review by* Rees, M, **425**, 239

Committee for Survey and Analysis of Science Advice on Sustainable Development to International Organizations, Development, Security, and Cooperation, National Research Council. Knowledge and Diplomacy: Science Advice in the United Nations System, *Book review by* Masood, E, **422**, 471

Conard, N J. Palaeolithic ivory sculptures from southwestern Germany and the origins of figurative art, *Letter to Nature*, **426**, 830

Cone, R. *See under* Chabre, M, **426**, 30

Congreve, M. *See under* van Montfort, R L M, **423**, 773

Connelly, D P. *See under* Edmonds, H N, **421**, 252

Conner, S D. Regulated portals of entry into the cell (*with* Schmid, S L), *Review article*, **422**, 37

Connor, R. *See under* Wood, V, **421**, 94

Conrad, H. *See under* Pascual, J I, **423**, 525

Conradt, L. Group decision-making in animals (*with* Roper, T J), *Letter to Nature*, **421**, 155

Constantinescu, A M. *See under* Hase, M, **426**, 51

Conway, E M. Cardiovascular biology: Signalling silenced (*with* Carmeliet, P), *News and views*, **425**, 139

Conway, G. Genes for Africa: Genetically Modified Crops in the Developing World (*by* Thomson, J A), *Book review*, **421**, 478

Conway Morris, S. *See under* Shu, D-G, **421**, 526
Life's Solution: Inevitable Humans in a Lonely Universe, *Book review by* Lenski, R E, **425**, 767

Cook, A. *See under* Mann, N H, **424**, 741

Cook, D L. Synaptic depression in the localization of sound (*with* Schwindt, P C, Grande, L A, Spain, W J), *Letter to Nature*, **421**, 66
Corrigendum: Synaptic depression in the localization of sound (*with* Schwindt, P C, Grande, L A, Spain, W J), *Letter to Nature*, **423**, 197

Cook, L L. *See under* Hillier, L W, **424**, 157

Cooper, A. *See under* Bunce, M, **425**, 172

Cooper, M. *See under* Bennett, J, **423**, 384

Copeland, N G. *See under* Montcouquiol, M, **423**, 173

Copeland, P. *See under* Kappelman, J, **426**, 549

Copland, P. Science and ethics must not be separated, *Correspondence*, **425**, 121

Coppersmith, S N. *See under* Ghosh, S, **425**, 48

Corado, M S G. *See under* Clyde, D E, **426**, 849

Corby, N R. *See under* Mungall, A J, **425**, 805

Cordell, H J. *See under* Ueda, H, **423**, 506

Corder, R. Drinking your health? It's too early to say (*with* Crozier, A, Kroon, P A), *Correspondence*, **426**, 119

Cordes, M. *See under* Hillier, L W, **424**, 157

Cordingley, M G. *See under* Lamarre, D, **426**, 186, **426**, 314

Cordum, H S. *See under* Skaletsky, H, **423**, 825
See under Rozen, S, **423**, 873

Corkum, P B. *See under* Niikura, H, **421**, 826

Corma, A. Synthetic chemistry: Ship reverses out of bottle, *News and views*, **425**, 356

Cornil, J. *See under* Kubatkin, S, **425**, 698

Cornwallis, C K. *See under* Pizzari, T, **426**, 70

Cornwell, J. Hitler's Scientists: Science, War and the Devil's Pact, *Book review by* Macrakis, K, **425**, 766

Coron, N. *See under* de Marcillac, P, **422**, 876

Corradi, R L M. *See under* Bond, H E, **422**, 405

Corrie, J E T. *See under* Forkey, J N, **422**, 399

Cosme, J. *See under* Williams, P A, **424**, 464

Cossart, R. Attractor dynamics of network UP states in the neocortex (*with* Aronov, D, Yuste, R), *Letter to Nature*, **423**, 283

Costa, S. *See under* Foreman, J, **422**, 442

Couch, W J. *See under* Drinkwater, M J, **423**, 519

Coull, J A M. Trans-synaptic shift in anion gradient in spinal lamina I neurons as a mechanism of neuropathic pain (*with* Boudreau, D, Bachand, K, Prescott, S A, Nault, F, Sik, A, De Koninck, P, De Koninck, Y), *Letter to Nature*, **424**, 938

Coulson, A. *See under* Mungall, A J, **425**, 805

Coulson, T. *See under* Milner-Gulland, E J, **422**, 135

Coureaud, G. *See under* Schaal, B, **424**, 68

Coureux, P-D. A structural state of the myosin V motor without bound nucleotide (*with* Wells, A L, Ménétrey, J, Yengo, C M, Morris, C A, Sweeney, H L, Houdusse, A), *Letter to Nature*, **425**, 419

Coursol, S. Sphingolipid signalling in *Arabidopsis* guard cells involves heterotrimeric G proteins (*with* Fan, L-M, Le Stunff, H, Spiegel, S, Gilroy, S, Assmann, S M), *Letter to Nature*, **423**, 651

Courtneidge, S A. Cancer: Escape from inhibition, *News and views*, **422**, 827

Courtney, L. *See under* Hillier, L W, **424**, 157

Courtois, G. *See under* Kovalenko, A, **424**, 801

Coville, G J. *See under* Mungall, A J, **425**, 805

Cowan, J. Astronomy: Elements of surprise, *News and views*, **423**, 29

Cowie, L. Astronomy: Wrestling monsters in deep space, *News and views*, **422**, 670

Cowlishaw, G. *See under* Rands, S A, **423**, 432
Eating Apes (*by* Peterson, D), *Book review*, **424**, 131

Cox, A D. *See under* Bivona, T G, **424**, 694

Cox, D R. *See under* Donnelly, C A, **426**, 834

Cox, P. *See under* Walter, F, **424**, 406

Cox, R. The Suffering Gene: Environmental Threats to our Health (*by* Burdon, R), *Book review*, **425**, 346

Coyne, J A. A Devil's Chaplain (*by* Dawkins, R, Menon, L), *Book review*, **422**, 813
The Red Canary: The Story of the First Genetically Engineered Animal (*by* Birkhead, T), *Book review*, **425**, 772

Cozzarelli, N R. *See under* Bryant, Z, **424**, 338

Crabaugh, J. *See under* Kappelman, J, **426**, 549

Craig, C L. Spider Webs and Silks: tracing Evolution from Molecules to Genes to Phenotypes, *Book review by* Vollrath, F, **426**, 121

Cram, W J. Watching an IT icon slide into history, *Correspondence*, **422**, 801

Craven, R. Sensory transduction: Feel the heat, *News and views*, **423**, 496
Neurobiology: Untangling tau, *News and views*, **424**, 898

Crawford, I. Space: next step is an International Moon Base, *Correspondence*, **422**, 373

Crawford, J D. *See under* Niemeler, M, **422**, 76

Cremer, A. *See under* Witte, U, **424**, 763

Crespeau, H. *See under* Heilig, R, **421**, 601

Crichton, W A. *See under* Dubrovinsky, L, **422**, 58

Criscione, L. Authorities should note sponsorship-results link, *Correspondence*, **424**, 369

Critchley, D R. *See under* Jiang, G, **424**, 334

Cronin, A. *See under* Wood, V, **421**, 94

Crook, R. Erasable electrostatic lithography for quantum components (*with* Graham, A C, Smith, C G, Farrer, I, Beere, H E, Ritchie, D A), *Letter to Nature*, **424**, 751

Cross, J C. *See under* Wu, L, **421**, 942

Cross, S H. *See under* Selker, E U, **422**, 893

Crosthwaite, L P. *See under* Turner, J L, **423**, 621

Crosthwaite, S K. *See under* Kramer, C, **421**, 948

Crotti, G. *See under* Galli, C, **424**, 635, **425**, 680

Crotty, S. SAP is required for generating long-term humoral immunity (*with* Kersh, E N, Cannons, J, Schwartzberg, P L, Ahmed, R), *Letter to Nature*, **421**, 282

Crouch, T. The Wright Brothers and the Invention of the Aerial Eagle (*with* Jakab, P L), *Book review by* Nahum, A, **426**, 765

Crozat, K. *See under* Hoebe, K, **424**, 743

Crozier, A. *See under* Serafini, M, **424**, 1013
See under Corder, R, **426**, 119, **426**, 788

Crozier, R H. Developmental Plasticity and Evolution (*by* West-Eberhard, M J), *Book review*, **424**, 16

Cruaud, C. *See under* Heilig, R, **421**, 601

Cruzado, L. *See under* Wood, V, **421**, 94

Csicsvari, J. *See under* Harris, K D, **424**, 552

Csoka, A B. *See under* Eriksson, M, **423**, 293

Cua, D J. Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain (*with* Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D), *Letter to Nature*, **421**, 744

Cubukcu, E. Electromagnetic waves: Negative refraction by photonic crystals (*with* Aydin, K, Ozbay, E, Foteinopoulou, S, Soukoulis, C M), *Brief communication*, **423**, 604

Cucca, F. *See under* Ueda, H, **423**, 506

Cuillandre, J-C. *See under* Sicardy, B, **424**, 168

Cullen, J L. *See under* Oppo, D W, **422**, 277, **423**, 400

Cullen, P J. *See under* Bivona, T G, **424**, 694

Culley, A I. High diversity of unknown picorna-like viruses in the sea (*with* Lang, A S, Suttle, C A), *Letter to Nature*, **424**, 1054

Culley, K M. *See under* Mungall, A J, **425**, 805

Cumings, J. *See under* Fennimore, A M, **424**, 408

Cummings, A C. *See under* McDonald, F B, **426**, 48

Cunningham, A A. *See under* Jepson, P D, **425**, 575

Cuppen, E. *See under* Hurlstone, A F L, **425**, 633

Cure, S. *See under* Heilig, R, **421**, 601

Currie, C R. Corrigendum: Fungus-growing ants use antibiotic-producing bacteria to control garden parasites (*with* Scott, J A, Summerbell, R C, Malloch, D), *Letter to Nature*, **423**, 461

Curry, R. A change in the freshwater balance of the Atlantic Ocean over the past four decades (*with* Dickson, B, Yashayaev, I), *Letter to Nature*, **426**, 826

Curry Rogers, K. *See under* Rogers, R R, **422**, 515

Custers, J. The break-up of heavy electrons at a quantum critical point (*with* Gegenwart, P, Wilhelm, H, Neumaier, K, Tokiwa, Y, Tovarelli, O, Geibel, C, Steglich, F, Pepin, C, Coleman, P), *Letter to Nature*, **424**, 524

Cuthill, I C. *See under* Blomqvist, D, **422**, 833

Cutler, D J. *See under* Thomas, J W, **424**, 788

Cyranoski, D. Petition calls for clampdown on absentee Chinese researchers, *News*, **421**, 3
China plans clean sweep on dust storms, *News*, **421**, 101
Taiwanese institute causes upset by degrees, *News*, **421**, 464
Hints of age bias spur calls for grant reforms (*with* Kandachi, K), *News*, **421**, 680
Vaccine sought as bird flu infects humans, *News*, **422**, 6
Health labs focus on mystery pneumonia, *News*, **422**, 247
Conflicts undermine global forum's push for safe water, *News*, **422**, 364
China joins investigation of mystery pneumonia, *News*, **422**, 459
Chinese authorities admit mishandling of Guangdong crisis, *News*, **422**, 548
Taiwan left isolated in fight against SARS, *News*, **422**, 652
A recipe revolution, *News feature*, **422**, 796
Apartment complex holds clues to pandemic potential of SARS (*with* Abbott, A), *News*, **423**, 3
See under Abbott, A, **423**, 3
Critics slam treatment for SARS as ineffective and perhaps dangerous, *News*, **423**, 4
Asia's nuclear family (*with* Brumfiel, G), *News feature*, **423**, 110
Biologists take tentative steps towards bespoke cancer drugs, *News*, **423**, 209
Asteroid probe to test technologies, *News*, **423**, 212
Virus detectives seek source of SARS in China's wild animals (*with* Abbott, A), *News*, **423**, 467
Biologist gets minimum sentence in 'espionage' case, *News*, **423**, 575
Japanese team makes stem cells, *News*, **423**, 577
WHO issues rallying cry to keep fight against SARS on track, *News*, **423**, 905
Astronomers try to save Mars probe, *News*, **424**, 6
Collision debris yields five-quark particle, *News*, **424**, 7
Malaysia puts biovalley under wraps, *News*, **424**, 118
UK shock tactics repel animal-rights activists in Japan, *News*, **424**, 119
Where did the SARS virus come from?, *News feature*, **424**, 124
Why China?, *News feature*, **424**, 124

  - Are China's bioethics under control?, *News*, **424**, 239
  - China launches primate centre to broaden medical use of monkeys, *News*, **424**, 239
  - Dispute over data privacy halts cancer study, *News*, **424**, 359
  - Brain region linked to post-terror stress, *News*, **424**, 360
  - Art: Seeing the light, *Book review*, **424**, 726
  - The matrix, reinvented, *News feature*, **424**, 870
  - Young guns shoot to the top in China's research revolution, *News*, **425**, 113
  - Worm genes harnessed to tackle snail fever, *News*, **425**, 227
  - SARS triggers biomedical shake-up in China, *News*, **425**, 333
  - Secret garden opens up to public, *News*, **425**, 333
  - China plays cards close to its chest over manned space shot, *News*, **425**, 438
  - China takes centre stage for liver proteome, *News*, **425**, 441
  - Earthquake makes waves for tsunami models, *News*, **425**, 649
  - Satellite loss throws Japan's space programme into disarray, *News*, **426**, 3
  - This protein belongs to, *News feature*, **426**, 10
  - Whale of a catch blows hole in family tree, *News*, **426**, 219
  - Digging in, *News feature*, **426**, 492
  - Swamp row bogs down Singapore's bid to reclaim land, *News*, **426**, 592
  - Koreans rustle up madness-resistant cows, *News*, **426**, 743
  - China: From SARS to the stars, *News feature*, **426**, 752
- **Cyrklaff, M.** *See under* Paschen, S A, **426**, 862
- **Czura, C J.** *See under* Wang, H, **421**, 384

- **Da Silva, C.** *See under* Heilig, R, **421**, 601
- **Dacke, M.** Insect orientation to polarized moonlight (*with* Nilsson, D-E, Scholtz, C H, Byrne, M, Warrant, E J), *Brief communication*, **424**, 33
- **d'Adda di Fagagna, F.** A DNA damage checkpoint response in telomere-initiated senescence (*with* Reaper, P M, Clay-Farrace, L, Fiegler, H, Carr, P, von Zglinicki, T, Saretzki, G, Carter, N P, Jackson, S P), *Letter to Nature*, **426**, 194
- **Dade, W B.** *See under* Dadson, S J, **426**, 648
- **Dadson, S J.** Links between erosion, runoff variability and seismicity in the Taiwan orogen (*with* Hovius, N, Chen, H, Dade, W B, Hsieh, M-L, Willett, S D, Hu, J-C, Horng, M-J, Chen, M-C, Stark, C P, Lague, D, Lin, J-C), *Letter to Nature*, **426**, 648
- **Daga, R R.** *See under* Wood, V, **421**, 94
- **Daggett, V.** *See under* Mayor, U, **421**, 863
- **Dahlman, I.** *See under* Ueda, H, **423**, 506
- **Dahm, R.** *See under* Knaut, H, **421**, 279
- **Dahout-Gonzalez, C.** *See under* Pebay-Peyroula, E, **426**, 39
- **Dai, H.** *See under* Javey, A, **424**, 654
- **Dai, P.** *See under* Kang, H J, **423**, 522, **426**, 140
- **Dai, S.** *See under* Liu, Y, **423**, 49
- **Daily, G C.** *See under* Liu, J, **421**, 530
- **Dajee, M.** NF-κB blockade and oncogenic Ras trigger invasive human epidermal neoplasia (*with* Lazarov, M, Zhang, J Y, Cai, Ti, Green, C L, Russell, A J, Marinkovich, M P, Tao, S, Lin, Q, Kubo, Y, Khavari, P A), *Letter to Nature*, **421**, 639
- **Dale, J K.** Periodic Notch inhibition by Lunatic Fringe underlies the chick segmentation clock (*with* Maroto, M, Dequeant, M L, Malapert, P, McGrew, M, Pourquie, O), *Letter to Nature*, **421**, 275
- **Dale, R.** Television review: Walking with Cavemen, *Book review by* Gamble, C, **422**, 473
- **Daley, G Q.** *See under* Davidson, A J, **425**, 300
- **Dalsgaard, T.** N2 production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica (*with* Canfield, D E, Petersen, J, Thamdrup, B, Acuña-González, J), *Letter to Nature*, **422**, 606
- **Dalton, A B.** Super-tough carbon-nanotube fibres (*with* Collins, S, Muñoz, E, Razal, J M, Ebron, V H, Ferraris, J P, Coleman, J N, Kim, B G, Baughman, R H), *Brief communication*, **423**, 703
- **Dalton, R.** Bleak outlook for universities as state budget deficits bite, *News*, **421**, 5
  - A window on the inner Earth, *News feature*, **421**, 10
  - Researcher uncovers truth behind wartime security slur, *News*, **421**, 303
  - Fury at plan to split historic biology archive, *News*, **421**, 564
  - Long-lost wave report sinks asteroid impact theory, *News*, **421**, 679
  - Poor farmers warned against Internet transgenic crop deals, *News*, **421**, 776
  - Climate studies hold key to future of desalination plant, *News*, **422**, 4
  - The coast road, *News feature*, **422**, 10
  - Auction of DNA archive cancelled, *News*, **422**, 102
  - Academics fume as university refuses to reject tobacco dollars, *News*, **422**, 361
  - Arizona institute names leader, *News*, **423**, 6
  - Mock turtles, *News feature*, **423**, 219
  - Legal row looms for gene-map firm, *News*, **423**, 470
  - Threat of closure hangs heavy over primate centre, *News*, **423**, 471
  - Natural history collections in crisis as funding is slashed, *News*, **423**, 575
  - Traditional wheat breeder fights for funding, *News*, **423**, 790
  - Ecologists seek to turn tide on Colorado River, *News*, **423**, 793
  - Ants join online colony to boost conservation efforts, *News*, **424**, 242
  - Museum trustees quit after row over sale of artefacts, *News*, **424**, 360
  - US researchers fear job losses from privatization drive, *News*, **424**, 478
  - Ecological advice sparks sea change in judicial opinion, *News*, **424**, 603
  - Ant book deepens divide over web publishing, *News*, **424**, 985
  - Court ruling sounds note of caution for sonar system, *News*, **425**, 6
  - Lion man takes pride of place as oldest statue, *News*, **425**, 7
  - Hot tempers, hard core, *News feature*, **425**, 13
  - US selects regional biodefence hubs, *News*, **425**, 110
  - Software mogul turns to mouse for genetic atlas of the brain, *News*, **425**, 226
  - Report raises hopes for grand network of US ecology centres, *News*, **425**, 332
  - Scientists split over regulations on sonar use, *News*, **425**, 549
  - Biologists seek havens for species at risk, *News*, **425**, 754
  - Florida welcomes Scripps as critics predict big-money flop, *News*, **426**, 4
  - Syngenta ends plant-research deal with Berkeley, *News*, **426**, 216
  - University buildings named on shaky ground, *News*, **426**, 374
  - Ship row flags up funding of war in Africa, *News*, **426**, 485
  - Berkeley accused of biotech bias as ecologist is denied tenure, *News*, **426**, 591
- **Damascelli, A.** *See under* van der Marel, D, **425**, 271
- **Damasio, A.** Looking for Spinoza: Joy, Sorrow and the Feeling Brain, *Book review by* Dolan, R, **421**, 893
  - The person within, *Concepts*, **423**, 227
- **Dambler, G.** *See under* de Marcillac, P, **422**, 876
- **Damen, W G M.** *See under* Stollewerk, A, **423**, 863
- **D'Amico, N.** *See under* Burgay, M, **426**, 531
- **D'Amours, D.** *See under* Goldberg, M, **421**, 952
- **Damste, J S S.** *See under* Schefuß, E, **422**, 418
- **Damuth, J.** *See under* Banavar, J R, **421**, 713
- **Dan, I.** Japanese system buries the individual researcher, *Correspondence*, **423**, 221
- **Danchin, A.** The Delphic Boat: What Genomes Tell Us (*with* Quayle, A), *Book review by* Meyer, A, **422**, 564
  - *See under* Ren, S-X, **422**, 888
- **Danenberg, E.** *See under* Willert, K, **423**, 448
- **Danial, N N.** BAD and glucokinase reside in a mitochondrial complex that integrates glycolysis and apoptosis (*with* Gramm, C F, Scorrano, L, Zhang, C-Y, Krauss, S, Ranger, A M, Datta, S R, Greenberg, M E, Licklider, L J, Lowell, B B, Gygi, S P, Korsmeyer, S J), *Letter to Nature*, **424**, 952
- **Danilov, A.** *See under* Kubatkin, S, **425**, 698
- **D'Anna, G.** Observing brownian motion in vibration-fluidized granular matter (*with* Mayor, P, Barrat, A, Loreto, V, Nori, F), *Letter to Nature*, **424**, 909
- **Dannenberg, S.** *See under* Krekelberg, B, **424**, 674
- **Darling, K.** *See under* Bauch, D, **424**, 299
- **Darvasi, A.** Genomics: Gene expression meets genetics, *News and views*, **422**, 269
- **Darveau, C A.** Reply: Physiology: Allometric cascades (*with* Suarez, R K, Andrews, R D, Hochachka, P W), *Brief communication*, **421**, 714
- **Das, S.** *See under* Neumann, C A, **424**, 561
- **DasGupta, R.** *See under* Jamora, C, **422**, 317, **424**, 974
- **Datta, P.** *See under* Jones, J M, **425**, 721
- **Datta, S R.** *See under* Danial, N N, **424**, 952
- **Daugherty, S C.** *See under* Read, T D, **423**, 81
- **Dauphin-Kohlberg, S.** *See under* Hillier, L W, **424**, 157
- **Davey, C A.** *See under* Richmond, T J, **423**, 145
- **Davidson, A J.** cdx4 mutants fail to specify blood progenitors and can be rescued by multiple hox genes (*with* Ernst, P, Wang, Y, Dekens, M P S, Kingsley, P D, Palis, J, Korsmeyer, S J, Daley, G Q, Zon, L I), *Letter to Nature*, **425**, 300
- **Davies, E.** *See under* Jones, J M, **425**, 721
- **Davies, E L.** *See under* Tootle, T L, **426**, 299
- **Davies, G.** *See under* Keeling, M J, **421**, 136
- **Davies, J.** Journals: impact factors are too highly valued, *Correspondence*, **421**, 210
  - *See under* Mungall, A J, **425**, 805
- **Davies, J M.** *See under* Foreman, J, **422**, 442
- **Davis, B T.** *See under* Altfeld, M, **423**, 461
- **Davis, E E.** *See under* Fisher, A T, **421**, 618
- **Davis, G W.** *See under* Poskanzer, K E, **426**, 559
- **Davis, J C.** *See under* McElroy, K, **422**, 592
- **Davis, M E.** *See under* Lee, H, **425**, 385
- **Davis, P.** *See under* Wood, V, **421**, 94
  - *See under* Lamb, S, **425**, 792
- **Davis, R W.** *See under* Gu, Z, **421**, 63
- **Davoust, J.** *See under* Guermonprez, P, **425**, 397
- **Daw, R.** Biomimetics: Gels got rhythm, *News and views*, **422**, 132
  - What's cooking?, *News and views*, **425**, 34
- **Dawkins, R.** *See under* Blakemore, C, **421**, 314
  - A Devil's Chaplain (*with* Menon, L), *Book review by* Coyne, J A, **422**, 813
- **Dawson, T E.** *See under* Gregg, J W, **424**, 183
- **Day, M.** Glutamate-receptor-mediated encoding and retrieval of paired-associate learning (*with* Langston, R, Morris, R G M), *Letter to Nature*, **424**, 205
- **Day, P K.** A broadband superconducting detector suitable for use in large arrays (*with* LeDuc, H G, Mazin, B A, Vayonakis, A, Zmuidzinas, J), *Letter to Nature*, **425**, 817
- **De Baetselier, P.** *See under* Vanhamme, L, **422**, 83
- **de Berardinis, V.** *See under* Heilig, R, **421**, 601
- **de Bruin, A.** *See under* Wu, L, **421**, 942
- **De Cola, L.** *See under* Welter, S, **421**, 54
- **de Couet, H G.** *See under* Lee, P N, **424**, 1061
- **De Deyn, G B.** Soil invertebrate fauna enhances grassland succession and diversity (*with* Raaijmakers, C E, Zoomer, H R, Berg, M P, de Ruiter, P C, Verhoef, H A, Bezemer, T M, van der Putten, W H), *Letter to Nature*, **422**, 711
- **de Jong, G.** Developmental Plasticity and Evolution (*by* West-Eberhard, M J), *Book review*, **424**, 16
- **De Jong, P J.** *See under* Thomas, J W, **424**, 788
- **de Jonge, N.** Corrigendum: High brightness electron beam from a multi-walled carbon nanotube (*with* Lamy, Y, Schoots, K, Oosterkamp, T H), *Letter to Nature*, **423**, 461
- **de Joussineau, C.** delta-promoted filopodia mediate long-range lateral inhibition in Drosophila (*with* Soule, J, Martin, M, Anguille, C, Montcourrier, P, Alexandre, D), *Letter to Nature*, **426**, 555
- **De Koninck, P.** *See under* Coull, J A M, **424**, 938
- **De Koninck, Y.** *See under* Coull, J A M, **424**, 938
- **De la Rosa, M A.** *See under* Molina-Heredia, F P, **424**, 33
- **de Lange, T.** *See under* Loayza, D, **423**, 1013
- **De Luca, A.** *See under* Bignami, G F, **423**, 725
- **de Marcillac, P.** Experimental detection of α-particles from the radioactive decay of natural bismuth (*with* Coron, N, Dambler, G, Leblanc, J, Moallc, J-P), *Letter to Nature*, **422**, 876
- **de Meis, C.** *See under* de Meis, L, **424**, 723
- **de Meis, L.** Impact factors: just part of a research treadmill (*with* do Carmo, M S, de Meis, C), *Correspondence*, **424**, 723
- **de Pablo, J J.** *See under* Kim, S O, **424**, 411
- **De Pascale, M P.** *See under* Casolino, M, **422**, 680
- **de Queiroz, K.** *See under* Losos, J B, **424**, 542
- **de Riedmatten, H.** *See under* Marcikic, I, **421**, 509
- **de Ruiter, P C.** *See under* De Deyn, G B, **422**, 711
- **De Santis, S.** *See under* Serafini, M, **424**, 1013
- **de Silva, S.** Global change: Eruptions linked to El Niño, *News and views*, **426**, 239
- **De Smaele, E.** *See under* Zazzeroni, F, **424**, 742
- **De Strooper, B.** Alzheimer's disease: Mental plaque removal (*with* Woodgett, J), *News and views*, **423**, 392
- **de Waal, F B M.** *See under* Brosnan, S F, **425**, 297
- **De Wachter, P.** *See under* Walsh, P D, **422**, 611
- **Dean, W.** *See under* Reik, W, **423**, 390
- **Deaville, R.** *See under* Jepson, P D, **425**, 575
- **DeBoy, R T.** *See under* Read, T D, **423**, 81
- **Decanniere, K.** *See under* Dumoulin, M, **424**, 783
- **DeCaprio, J A.** *See under* Li, D, **423**, 512, **425**, 102
- **Dechmann, D.** A Magic Web (*by* Leigh Jr, E G, Ziegler, C), *Book review*, **424**, 132
- **Decker, J M.** *See under* Wei, X, **422**, 307, **423**, 197
- **Decker, R B.** *See under* Krimigis, S M, **426**, 45
- **DeConto, R M.** Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO_2 (*with* Pollard, D), *Letter to Nature*, **421**, 245
- **DeCoursey, P J.** *See under* Dunlap, J C, **425**, 346
- **DeCoursey, T E.** The voltage dependence of NADPH oxidase reveals why phagocytes need proton channels (*with* Morgan, D, Cherny, V V), *Letter to Nature*, **422**, 531
- **Defleur, A.** *See under* Clark, J D, **423**, 747
- **Degen, M.** Civil war leaves Ivory Coast research in tatters, *News*, **421**, 680
  - Europe draws up plans for funding agency, *News*, **421**, 881
- **Degollada, E.** *See under* Jepson, P D, **425**, 575
- **DeGrado, W F.** Computational biology: Biosensor design, *News and views*, **423**, 132
- **DeGusta, D.** *See under* White, T D, **423**, 742
- **Dehez, F.** *See under* Leigh, D A, **424**, 174
- **Dejima, K.** *See under* Mizuguchi, S, **423**, 443
- **Dekens, M P S.** *See under* Davidson, A J, **425**, 300
- **Dekker, J P.** *See under* Ruban, A V, **421**, 648
- **DeKruyff, R H.** *See under* McIntire, J J, **425**, 576
- **Del Carro, U.** *See under* Pluchino, S, **422**, 688
- **del Rey, F.** *See under* Wood, V, **421**, 94
- **Deleault, N R.** RNA molecules stimulate prion protein conversion (*with* Lucassen, R W, Supattapône, S), *Letter to Nature*, **425**, 717
- **Delefosse, T.** *See under* Yoder, A D, **421**, 734
- **Delehaunty, A.** *See under* Skaletsky, H, **423**, 825
- **Delehaunty, K.** *See under* Skaletsky, H, **423**, 825
- **Delehaunty, K D.** *See under* Hillier, L W, **424**, 157
- **Deleuil, F.** *See under* Englund, C, **425**, 512
- **Delhey, K.** *See under* Foerster, K, **425**, 714
- **Delneri, D.** Engineering evolution to study speciation in yeasts (*with* Colson, I, Grammenoudi, S, Roberts, I N, Louis, E J, Oliver, S G), *Letter to Nature*, **422**, 68
- **Delon, I.** *See under* Sucena, E, **424**, 935
- **Delsanti, A.** *See under* Sicardy, B, **424**, 168
- **DeMarco, B.** *See under* Leibfried, D, **422**, 412
- **deMello, A J.** Microfluidics: DNA amplification moves on, *News and views*, **422**, 28
- **Demers, M J.** *See under* Krummel, E M, **425**, 255
- **Demidchik, V.** *See under* Foreman, J, **422**, 442
- **Demidov, V E.** *See under* Demokritov, S O, **426**, 159
- **Demokritov, S O.** Experimental observation of symmetry-breaking nonlinear modes in an active ring (*with* Serga, A A, Demidov, V E, Hillebrands, B, Kostylev, M P, Kalinikos, B A), *Letter to Nature*, **426**, 159
- **Denison, R F.** *See under* Kiers, E T, **425**, 78
- **Denli, A M.** *See under* Caudy, A M, **425**, 411
- **Dennett, D.** Freedom evolves, *Book review by* Konner, M, **423**, 17
- **Denney Jr, D W.** *See under* Cho, H-S, **421**, 756
- **Dennis, C.** Burning issues, *News feature*, **421**, 204
  - Bushfires annihilate Australian observatory, *News*, **421**, 302
  - The eternal molecule (*with* Campbell, P), *Feature*, **421**, 396
  - Altered states, *News feature*, **421**, 686
  - Error reports threaten to unravel databases of mitochondrial DNA, *News*, **421**, 773
  - Draft guidelines ease restrictions on use of gnome sequence data, *News*, **421**, 877

Geneticists question fees for use of patented 'junk' DNA, *News*, **423**, 105
Cash crisis casts pall over synchrotron X-ray source, *News*, **423**, 210
Researchers rue hasty destruction of wheat, *News*, **423**, 210
Sweet revenge, *News feature*, **423**, 580
Synthetic sex cells, *News feature*, **424**, 364
Maize map see geneticists split over choice of direction, *News*, **424**, 476
Companies vie to put all your genes on a chip, *News*, **424**, 605
Chinese fusion method promises fresh route to human stem cells, *News*, **424**, 711
Astronomers count the cost of thinking big, *News*, **424**, 714
Opossum hops over kangaroo to top of genome list, *News*, **425**, 753
The rough guide to the genome, *News feature*, **425**, 758
Close encounters of the jelly kind, *News feature*, **426**, 12
Budget cuts force Hong Kong to reduce salaries, *News*, **426**, 485
Take a cell, any cell, *News feature*, **426**, 490
Planet Jemma, *Website review*, **426**, 499
Coral reveals ancient origins of human genes, *News*, **426**, 744
Genomics: Compare and contrast, *News feature*, **426**, 750
DePace, A H. *See under* Chien, P, **424**, 948
Depew, D J. *See under* Weber, B H, **425**, 345
Dephoure, N. *See under* Ghaemmaghami, S, **425**, 737
DePinho, R A. *See under* Wong, K-K, **421**, 643
Dequeant, M L. *See under* Dale, J K, **421**, 275
Derbyshire, J. Prime Obsession: Bernhard Riemann and the Greatest Unsolved Problem in Mathematics, *Book review by* Gowers, W T, **425**, 562
DeRenzo, C. Exclusion of germ plasm proteins from somatic lineages by cullin-dependent degradation (*with* Reese, K J, Seydoux, G), *Letter to Nature*, **424**, 685
Dereux, A. *See under* Barnes, W L, **424**, 824
Dermer, C D. *See under* González, M M, **424**, 749
Derynck, R. Smad-dependent and Smad-independent pathways in TGF-β family signalling (*with* Zhang, Y E), *Review article*, **425**, 577
deSantana-Stamm, J. *See under* Knaut, H, **421**, 279
Desert, J-M. *See under* Vidal-Madjar, A, **422**, 143
Desert Seismology Group. *See under* Rumpker, G, **425**, 497
Desiraju, G R. In search of clarity, *Concepts*, **423**, 485
Desjardins, M. *See under* Houde, M, **425**, 402
Desmyter, A. *See under* Dumoulin, M, **424**, 783
DeSouza, C P C. *See under* Galagan, J E, **422**, 859
Desplan, C. Flowers' wings, fruitflies' petals (*with* Lecuit, T), *News and views*, **422**, 123
Detavernier, C. An off-normal fibre-like texture in thin films on single-crystal substrates (*with* Ozcan, A S, Jordan-Sweet, J, Stach, E A, Tersoff, J, Ross, F M, Lavoie, C), *Letter to Nature*, **426**, 641
Deuschele, T. *See under* Schmidt-Kaler, F, **422**, 408
Deville Cavellin, C. *See under* Schön, J H, **422**, 92
Devol, A H. Nitrogen cycle: Solution to a marine mystery, *News and views*, **422**, 575
Dewonck, S. *See under* Marty, B, **425**, 55
Dhami, P. *See under* Mungall, A J, **425**, 805
Dhanda, R K. Time for bioethics and business to start talking, *Correspondence*, **421**, 573
Dholakia, K. *See under* MacDonald, M P, **426**, 421
Di Fiore, P P. Signal transduction: Life on Mars, cellularly speaking, *News and views*, **424**, 624
Di Genova, G. *See under* Ueda, H, **423**, 506
Di Giacomo, B. *See under* Fu, J, **425**, 91
Dial, K P. *See under* Tobalske, B W, **421**, 363
Diamond, J. The double puzzle of diabetes, *News and views feature*, **423**, 599
Archaeology: Propaganda of the pyramids, *News and views*, **424**, 891
Diaz, F. *See under* Sicardy, B, **424**, 168
Dick, H J B. *See under* Edmonds, H N, **421**, 252
See under Michael, P J, **423**, 956
An ultraslow-spreading class of ocean ridge (*with* Lin, J, Schouten, H), *Article*, **426**, 405
Dick, J E. Stem cells: Self-renewal writ in blood, *News and views*, **423**, 231
Dickhoff, R. *See under* Heilig, R, **421**, 601
Dickson, B. Oceanography: Stirring time in the Atlantic, *News and views*, **424**, 141
See under Curry, R, **426**, 826
Dickson, M. How to walk on water, *News and views*, **424**, 621
Dickson, R E. *See under* Percy, K E, **421**, 190
Diebold, S S. Viral infection switches non-plasmacytoid dendritic cells into high interferon producers (*with* Montoya, M, Unger, H, Alexopoulou, L, Roy, P, Haswell, L E, Al-Shamkhani, A, Flavell, R, Borrow, P, Reis e Sousa, C), *Letter to Nature*, **424**, 324
Dieckmann, U. *See under* Doebeli, M, **421**, 259
Diehl, R H. *See under* Wikelski, M, **423**, 704
Diemann, E. *See under* Liu, T, **426**, 59
Dienes, Z. *See under* McLeod, P, **426**, 244
Dietrich, C. *See under* Sokolowski-Tinten, K, **422**, 287
Dietrich, N L. *See under* Thomas, J W, **424**, 788
Dieu, M. *See under* Vanhamme, L, **422**, 83
Dilanian, R A. *See under* Takada, K, **422**, 53
Dillehay, T D. Tracking the first Americans, *News and views*, **425**, 23
Dillingham, M S. RecBCD enzyme is a bipolar DNA helicase (*with* Spies, M, Kowalczykowski, S C), *Letter to Nature*, **423**, 893
Dillon, N. Positions, please, *Concepts*, **425**, 457
Dillon, P J. *See under* Watmough, S A, **423**, 823
Dilly, K W. *See under* Mohler, P J, **421**, 634
Dimmock, N. Cold Wars: The Fight Against the Common Cold (*by* Tyrrell, D, Fielder, M), *Book review*, **422**, 379
Dina, G. *See under* Pluchino, S, **422**, 688
Ding, H. *See under* Souma, S, **423**, 65
Dingus, B L. *See under* González, M M, **424**, 749
Dinsmore, A D. *See under* Nikolaides, M G, **424**, 1014
Dioumaev, V K. A recyclable catalyst that precipitates at the end of the reaction (*with* Bullock, R M), *Letter to Nature*, **424**, 530
Dirac, A M G. *See under* Brummelkamp, T R, **424**, 797
Dirie, A M. It's time for the US and Muslims to work together, *Correspondence*, **425**, 237
Ditta, G S. *See under* Pinyopich, A, **424**, 85
Divieti, P. *See under* Calvi, L M, **425**, 841
Djorgovski, S G. *See under* Fox, D W, **422**, 284
See under Price, P A, **423**, 844
Djuric, N. *See under* McCall, B J, **422**, 500
Dmitriev, V. *See under* Dubrovinsky, L, **422**, 58
do Carmo, M S. *See under* de Meis, L, **424**, 723
Dobson, A P. *See under* Torchin, M E, **421**, 628
Dobson, C M. *See under* Dumoulin, M, **424**, 783
See under Chiti, F, **424**, 805
Protein folding and misfolding, *Insight review article*, **426**, 884
Dobson, D. *See under* Dubrovinsky, L, **422**, 58
Dodabalapur, A. *See under* Schön, J H, **422**, 92
Dodson, R J. *See under* Read, T D, **423**, 81
Doe, C Q. *See under* Rolls, M M, **421**, 905
See under Pearson, B J, **425**, 624
Doebeli, M. Speciation along environmental gradients (*with* Dieckmann, U), *Letter to Nature*, **421**, 259
Doiron, B. Inhibitory feedback required for network oscillatory responses to communication but not prey stimuli (*with* Chacron, M J, Maler, L, Longtin, A, Bastian, J), *Letter to Nature*, **421**, 539
See under Chacron, M J, **423**, 77, **423**, 1018
Doiron-Leyraud, N. Fermi-liquid breakdown in the paramagnetic phase of a pure metal (*with* Walker, I R, Taillefer, L, Steiner, M J, Julian, S R, Lonzarich, G G), *Letter to Nature*, **425**, 595
Dolan, L. *See under* Foreman, J, **422**, 442
Dolan, R. Looking for Spinoza: Joy, Sorrow and the Feeling Brain (*by* Damasio, A), *Book review*, **421**, 893
Dolganov, G. *See under* Morris, D G, **422**, 169
Domen, J. *See under* Reya, T, **423**, 409
Dominguez, A. *See under* Wood, V, **421**, 94
Dominguez Alonso, P. *See under* Clack, J A, **425**, 65
Dominiczak, M H. Funding should recognize the value of peer review, *Correspondence*, **421**, 111
Writing: visuals are another story (*with* McFall, K), *Correspondence*, **424**, 128
Dong, H. *See under* Puigserver, P, **423**, 550
Dong, Y. *See under* Kamath, R S, **421**, 231
Dong, Z-M. *See under* Wu, X-C, **426**, 516
Donnelly, C A. Impact of localized badger culling on tuberculosis incidence in British cattle (*with* Woodroffe, R, Cox, D R, Bourne, J, Gettinby, G, Le Fevre, A M, McInerney, J P, Morrison, W I), *Letter to Nature*, **426**, 834
Donnelly, S. *See under* Rahn, T, **424**, 918
Donoso, A. *See under* Cabrera, J L, **421**, 786
Donovan, J. *See under* Puigserver, P, **423**, 550
Donzelli, M. *See under* Busino, L, **426**, 87
Dooling, D J. *See under* Wendl, M C, **424**, 995
Dore, J E. Climate-driven changes to the atmosphere CO_2 sink in the subtropical North Pacific Ocean (*with* Lukas, R, Sadler, D W, Karl, D M), *Letter to Nature*, **424**, 754
Dorget, M. *See under* Schön, J H, **422**, 92
Dornhaus, A. *See under* Chittka, L, **424**, 388
Dorrello, N V. *See under* Busino, L, **426**, 87
Dors, M. *See under* Heilig, R, **421**, 601
Douglas, R H. *See under* Hattar, S, **424**, 76
Douglas, R J. *See under* Verschure, P F M J, **425**, 620
Downie, J A. *See under* Lodwig, E M, **422**, 722
See under Parniske, M, **425**, 569
Downs, J A. Cancer: Protective packaging for DNA (*with* Jackson, S P), *News and views*, **424**, 732
Downward, J. Cell biology: Metabolism meets death, *News and views*, **424**, 896
Drachev, S. *See under* Jokat, W, **423**, 962
Draetta, G F. *See under* Busino, L, **426**, 87
Dragol, G. *See under* Harris, K D, **424**, 552
Drahos, P. Information Feudalism: Who Owns the Knowledge Economy? (*with* Braithwaite, J), *Book review by* Thomas, S, **421**, 577
Drake, J. *See under* Nicastro, F, **421**, 719
Drake, T A. *See under* Schadt, E E, **422**, 297
Dreano, S. *See under* Wood, V, **421**, 94
Dress, A W M. *See under* Liu, T, **426**, 59
Drexler, K E. If atomic precision is unfeasible, so is life, *Correspondence*, **422**, 257
Drinkwater, M J. A class of compact dwarf galaxies from disruptive processes in galaxy clusters (*with* Gregg, M D, Hilker, M, Bekki, K, Couch, W J, Ferguson, H C, Jones, J B, Phillips, S), *Letter to Nature*, **423**, 519
Driscoll, T. *See under* Blum, J D, **423**, 824
Driver, D. *See under* Parker, A R, **426**, 786
Droogmans, G. *See under* Watanabe, H, **424**, 434
Drossart, P. *See under* Yano, J-I, **421**, 36
Drummond, A. *See under* Bunce, M, **425**, 172
Drummond, J. Catch a falling star, *News and views*, **423**, 123
D'Souza, M. *See under* Ivanova, N, **423**, 87
Du, F. *See under* Hillier, L W, **424**, 157
Du, H. *See under* Heilig, R, **421**, 601
See under Skaletsky, H, **423**, 825
See under Hillier, L W, **424**, 157
du Sautoy, M. The Music of the Primes: Why an Unsolved Problem in Mathematics Matters, *Book review by* Gowers, W T, **425**, 562
Du, X. *See under* Xu, X, **421**, 335
See under Hoebe, K, **424**, 743
Du, Z. *See under* Brooker, R A, **423**, 738
Duan, L-M. *See under* Kuzmich, A, **423**, 731
Duan, X. Single-nanowire electrically driven lasers (*with* Huang, Y, Agarwal, R, Lieber, C M), *Letter to Nature*, **421**, 241
High-performance thin-film transistors using semiconductor nanowires and nanoribbons (*with* Niu, C, Sahi, V, Chen, J, Parce, J W, Empedocles, S, Goldman, J L), *Letter to Nature*, **425**, 274
Duban, L. *See under* Treiner, E, **422**, 164, **423**, 1018
duBell, W H. *See under* Mohler, P J, **421**, 634
Dubey, D P. *See under* Neumann, C A, **424**, 561
Dubois, I. *See under* Heilig, R, **421**, 601
Dubois, M. *See under* Heilig, R, **421**, 601
Dubonos, S V. *See under* Novoselov, K S, **426**, 812
Dubrovinskaia, N. *See under* Dubrovinsky, L, **422**, 58
Dubrovinsky, L. Iron-silica interaction at extreme conditions and the electrically conducting layer at the base of Earth's mantle (*with* Dubrovinskaia, N, Langenhorst, F, Dobson, D, Rubie, D, Gessmann, C, Abrikosov, I A, Johansson, B, Baykov, V I, Vitos, L, Le Bihan, T, Crichton, W A, Dmitriev, V, Weber, H-P), *Letter to Nature*, **422**, 58
Dubrovsky, J G. Celebrating 50 years of the cell cycle (*with* Ivanov, V B), *Correspondence*, **426**, 759
Duchi, R. *See under* Galli, C, **424**, 635, **425**, 680
Duckett, C S. *See under* Ganesh, L, **426**, 853
Ducos, B. *See under* Holzenberger, M, **421**, 182
Dudai, Y. Neurobiology: Fear thou not, *News and views*, **421**, 325
Memory From A to Z, *Book review by* Squire, L R, **423**, 119
Neurobiology: Caught in the act, *News and views*, **424**, 377
Duffard, R. *See under* Sicardy, B, **424**, 168
Dufour, S C. Sulphide mining by the superextensile foot of symbiotic thyasirid bivalves (*with* Felbeck, H), *Letter to Nature*, **426**, 65
Dufresne, A. *See under* Palenik, B, **424**, 1037
Duft, D. Coulomb fission: Rayleigh jets from levitated microdroplets (*with* Achtzehn, T, Muller, R, Huber, B A, Leisner, T), *Brief communication*, **421**, 128
Dufva, M. Open access will deter illegal file-sharing, *Correspondence*, **426**, 15
Duggen, S. Deep roots in Messinian salinity crisis (*with* Hoernle, K, van den Bogaard, P, Rupke, L, Phipps Morgan, J), *Letter to Nature*, **422**, 602
Dumont, C. *See under* Heilig, R, **421**, 601
Dumont, R A. Ion channels: Hearing aid (*with* Gillespie, P G), *News and views*, **424**, 28
Dumoulin, M. A camelid antibody fragment inhibits the formation of amyloid fibrils by human lysozyme (*with* Last, A M, Desmyter, A, Decanniere, K, Canet, D, Larsson, G, Spencer, A, Archer, D B, Sasse, J, Muyldermans, S, Wyns, L, Redfield, C, Matagne, A, Robinson, C V, Dobson, C M), *Letter to Nature*, **424**, 783
Dunbar, R B. Global change: Leads, lags and the tropics, *News and views*, **421**, 121
Duncan, A W. *See under* Reya, T, **423**, 409
See under Willert, K, **423**, 448
Duncan, J H. *See under* Liu, X, **421**, 520
Duncan, J M. Breeding to tackle blight without copper or GM, *Correspondence*, **425**, 15
Duncan, R R. Functional and spatial segregation of secretory vesicle pools according to vesicle age (*with* Greaves, J, Wiegand, U K, Matskevich, I, Bodammer, G, Apps, D K, Shipston, M J, Chow, R H), *Letter to Nature*, **422**, 176
Dundon, T A. *See under* Bates, S H, **421**, 856
Dunham, E W. *See under* Elliot, J L, **424**, 165
Dunlap, J. *See under* Galagan, J E, **422**, 859
Dunlap, J C. *See under* Kramer, C, **421**, 948
Chronobiology: Biological Timekeeping (*with* Loros, J J, DeCoursey, P J), *Book review by* Palmer, J, **425**, 346
Dunlop, J I. *See under* Kelley, S P, **424**, 321
Dunlop, J S. *See under* Stevens, J A, **425**, 264
Dunn, G H. *See under* McCall, B J, **422**, 500
Dunn, M. *See under* Mungall, A J, **425**, 805
Dunne, L. Type II supernovae as a significant source of interstellar dust (*with* Eales, S, Ivison, R, Morgan, H, Edmunds, M), *Letter to Nature*, **424**, 285
Dunne, T. *See under* Aalto, R, **425**, 493
Dupont, J. *See under* Holzenberger, M, **421**, 182
Durbin, R. *See under* Kamath, R S, **421**, 231
See under Mungall, A J, **425**, 805
Durkin, A S. *See under* Read, T D, **423**, 81
Durkin, S. *See under* Eriksson, M, **423**, 293
Dusterhoft, A. *See under* Wood, V, **421**, 94
Dutra, A. *See under* Eriksson, M, **423**, 293
Duvall Jr, T L. *See under* Gizon, L, **421**, 43, **421**, 764
Duzer, D. *See under* Chaimanee, Y, **422**, 61
Dwyer, M A. *See under* Looger, L L, **423**, 185
Dyer, A G. *See under* Chittka, L, **424**, 388
Dykhuizen, D. *See under* Bull, J, **426**, 609
Dyson, F J. Einstein in Berlin (*by* Levenson, T), *Book review*, **422**, 811
Dyson, N. Developmental biology: A twist in a mouse tale, *News and views*, **421**, 903

Eagar, C. *See under* Blum, J D, **423**, 824
Eagleman, D M. Improving science through online commentary (*with* Holcombe, A O), *Correspondence*, **423**, 15
Eales, S. *See under* Dunne, L, **424**, 285
Eapen, R S. *See under* Garg, V, **424**, 443
Earnest, T. *See under* Sali, A, **422**, 216

Earnshaw, W. *See under* Pollard, T, **421**, 115
Earthrowl, M E. *See under* Mungall, A J, **425**, 805
East, J M. *See under* Eckstein-Ludwig, U, **424**, 957
Eaton, W A. *See under* Schuler, B, **421**, 94
Eaves, A A. Reproduction: Widespread cloning in echinoderm larvae (*with* Palmer, A R), *Brief communication*, **425**, 146
Eaves, L. *See under* Catherall, A T, **422**, 579
Ebbesen, T W. *See under* Barnes, W L, **424**, 824
Ebbole, D J. *See under* Galagan, J E, **422**, 859
Ebihara, S. *See under* Yoshimura, T, **426**, 178
Ebron, V H. *See under* Dalton, A B, **423**, 703
Eckenberg, R. *See under* Heilig, R, **421**, 601
Ecker, J R. *See under* Strand, Å, **421**, 79
Eckstein-Ludwig, U. Artemisinins target the SERCA of *Plasmodium falciparum* (*with* Webb, R J, van Goethem, I D A, East, J M, Lee, A G, Kimura, M, O'Neill, P M, Bray, P G, Ward, S A, Krishna, S), *Letter to Nature*, **424**, 957
Economides, A N. *See under* Warren, S M, **422**, 625
Economo, E P. *See under* Enquist, B J, **423**, 639
Eddaoudi, M. *See under* Yaghi, O M, **423**, 705
Eddy, S. *See under* Salzberg, S, **422**, 801
Eddy, S R. *See under* Jiang, N, **421**, 163
  See under Hillier, L W, **424**, 157
Edling, C R. *See under* Liljeros, F, **423**, 606
Edmonds, H N. Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean (*with* Michael, P J, Baker, E T, Connelly, D P, Snow, J E, Langmuir, C H, Dick, H J B, Muhe, R, German, C R, Graham, D W), *Letter to Nature*, **421**, 252
  See under Michael, P J, **423**, 956
Edmunds, M. *See under* Dunne, L, **424**, 285
Edmunds, W J. *See under* Ferguson, N M, **425**, 681
Edwards, C A. *See under* Mungall, A J, **425**, 805
Edwards, J. *See under* Hillier, L W, **424**, 157
Edwards, K. *See under* Fisher, A T, **421**, 618
Edwards, M H. *See under* Perfit, M R, **426**, 62
Edwards, R L. *See under* Cobb, K M, **424**, 271
Efimov, A. *See under* Reeves, W H, **424**, 511
Efremidis, N K. *See under* Fleischer, J W, **422**, 147
Efstratiadis, A. *See under* Nef, S, **426**, 291
Egbert, S. *See under* Straume, T, **424**, 539
Eger, P. *See under* Wood, V, **421**, 94
Egerton, F N. Hewett Cottrell Watson: Victorian Plant Ecologist and Evolutionist, *Book review by* Bellon, R, **423**, 589
Eggins, S M. *See under* Sun, W, **422**, 294
Eggleston, A K. Cell biology: Arrested replication, *News and views*, **426**, 28
  Virology: Suppressing a terminator, *News and views*, **426**, 136
Ehlerding, A. *See under* McCall, B J, **422**, 500
Ehlers, T A. *See under* Reiners, P W, **426**, 645
Ehrenberg, M. *See under* Rawat, U B S, **421**, 87
  See under Klaholz, B P, **421**, 90
Ehrlich, P R. *See under* Liu, J, **421**, 530
Ehrlich, R. Eight Preposterous Propositions: From the Genetics of Homosexuality to the Benefits of Global Warming, *Book review by* Gratzer, W, **426**, 766
Ehrlich, S D. *See under* Ivanova, N, **423**, 87
Eichele, D. *See under* Niewoehner, W A, **422**, 395
Eichers, E R. *See under* Ansley, S J, **425**, 628
Eichler, E E. *See under* Hillier, L W, **424**, 157
Eichman, D R. *See under* Rabani, E, **426**, 271
Eiler, J M. *See under* Rahn, T, **424**, 918
Einwalter, L A. *See under* Vermeer, P D, **422**, 322
Eisaki, H. *See under* McElroy, K, **422**, 592
  See under Zhou, X J, **423**, 398
  See under van der Marel, D, **425**, 271
Eisen, J A. *See under* Read, T D, **423**, 81
Eisenman, R N. *See under* Gomez-Roman, N, **421**, 290
Eisenstein, D J. *See under* Inada, N, **426**, 810
Ejima, Y. *See under* Van Tonder, G J, **421**, 230
Ekstrom, A D. Cellular networks underlying human spatial navigation (*with* Kahana, M J, Caplan, J B, Fields, T A, Isham, E A, Newman, E L, Fried, I), *Letter to Nature*, **425**, 184
Elbert, T. Does Stress Damage the Brain? Understanding Trauma-related Disorders from a Mind-Body Perspective (*by* Bremner, J D), *Book review*, **421**, 477
  The End Of Stress As We Know It (*by* McEwen, B), *Book review*, **421**, 477
Eldred, J. *See under* Hillier, L W, **424**, 157
Elgar, M A. *See under* Arnqvist, G, **424**, 387
Elkenberry, S S. *See under* Elliot, J L, **424**, 165
Elkins, T. *See under* Galagan, J E, **422**, 859
Ella Akou, M. *See under* Walsh, P D, **422**, 611
Ellam, R M. *See under* Stuart, F M, **424**, 57
Elledge, S J. *See under* Stewart, G S, **421**, 961
  See under Xu, L, **425**, 316
Ellegren, H. *See under* Rueness, E K, **425**, 69
Ellek, J A. *See under* Hankins, T H, **422**, 141
Ellenberger, T. *See under* Krejci, L, **423**, 305
Ellington, A E. *See under* Mungall, A J, **425**, 805
Elliot, J L. The recent expansion of Pluto's atmosphere (*with* Ates, A, Babcock, B A, Bosh, A S, Buie, M W, Clancy, K B, Dunham, E W, Elkenberry, S S, Hall, D T, Kern, S D, Leggett, S K, Levine, S E, Moon, D S, Olkin, C B, Osip, D J, Pasachoff, J M, Penprase, B E, Person, M J, Qu, S, Rayner, J T, Roberts Jr, L C, Salyk, C V, Souza, S P, Stone, R C, Taylor, B W, Tholen, D J, Thomas-Osip, J E, Ticehurst, D R, Wasserman, L H), *Letter to Nature*, **424**, 165
Ellis, G. Faster Than The Speed of Light: The Story of a Scientific Speculation (*by* Magueijo, J), *Book review*, **422**, 563
Ellis, G F R. Cosmology: The shape of the Universe, *News and views*, **425**, 566
Ellis, J. Antimatter matters, *News and views feature*, **424**, 631
Ellis, J A. Cell biology: Patches for wounded muscle, *News and views*, **423**, 129
Ellis, R J. Molecular chaperones: Plugging the transport gap, *News and views*, **421**, 801
  Cell biology: Join the crowd (*with* Minton, A P), *News and views*, **425**, 27
Ellner, S P. *See under* Yoshida, T, **424**, 303
Elnitski, L. *See under* Thomas, J W, **424**, 788
Elphic, R C. *See under* Seki, K, **422**, 589
Elser, J J. *See under* Sterner, R W, **423**, 225
Eltsov, V B. *See under* Finne, A P, **424**, 1022
Elvis, M. *See under* Nicastro, F, **421**, 719
Emerson, S. *See under* Karl, D M, **426**, 32
Emley, N C. *See under* Kiselev, S I, **425**, 380
Empedocles, S. *See under* Duan, X, **425**, 274
Emsley, J. The Art of Chemistry: Myths, Medicines and Materials (*by* Greenberg, A), *Book review*, **421**, 790
Endrizzi, M. *See under* Galagan, J E, **422**, 859
  See under Kellis, M, **423**, 241
Endy, D. Signal transduction: Molecular monogamy (*with* Yaffe, M B), *News and views*, **426**, 614
Enever, P. *See under* White, A R, **422**, 80
Engel, A. *See under* Fotiadis, D, **421**, 127, **426**, 31
Engels, J. *See under* Perfit, M R, **426**, 62
Engels, R. *See under* Galagan, J E, **422**, 859
Englund, C. Jeb signals through the Alk receptor tyrosine kinase to drive visceral muscle fusion (*with* Loren, C E, Grabbe, C, Varshney, G K, Deleuil, F, Hallberg, B, Palmer, R H), *Letter to Nature*, **425**, 512
Enquist, B J. *See under* West, G B, **421**, 713
  Scaling metabolism from organisms to ecosystems (*with* Economo, E P, Huxman, T E, Allen, A P, Ignace, D D, Gillooly, J F), *Letter to Nature*, **423**, 639
  Corrigendum: Invariant scaling relations across tree-dominated communities (*with* Niklas, K J), *Letter to Nature*, **425**, 741
Epstein, J A. Signal transduction: An eye on organ development (*with* Neel, B G), *News and views*, **426**, 238
Erdos, M R. *See under* Eriksson, M, **423**, 293
Eremtchenko, M. Understanding and tuning the epitaxy of large aromatic adsorbates by molecular design (*with* Schaefer, J A, Tautz, F S), *Letter to Nature*, **425**, 602
Erickson, J M. *See under* Carpenter, S J, **423**, 70
Erienkeuser, H. *See under* Bauch, D, **424**, 299
Eriksson, M. Recurrent *de novo* point mutations in lamin A cause Hutchinson–Gilford progeria syndrome (*with* Brown, W T, Gordon, L B, Glynn, M W, Singer, J, Scott, L, Erdos, M R, Robbins, C M, Moses, T Y, Berglund, P, Dutra, A, Pak, E, Durkin, S, Csoka, A B, Boehnke, M, Glover, T W, Collins, F S), *Letter to Nature*, **423**, 293
Erkert, P. *See under* Knaut, H, **421**, 279
Ernst, P. *See under* Davidson, A J, **425**, 300
Ertl, S. *See under* Kerner, M, **422**, 150
Escande, D. *See under* Mohler, P J, **421**, 634
Eschner, J. *See under* Guide, S, **421**, 48
  See under Schmidt-Kaler, F, **422**, 408
Eshleman, J R. *See under* Berman, D M, **425**, 846
Esko, J D. *See under* Hwang, H-Y, **423**, 439
Espinosa, A. *See under* Jepson, P D, **425**, 575
Esposito, L. *See under* Ueda, H, **423**, 506
Esteve, J-P. *See under* Martinez, L O, **421**, 75
Etchegaray, J-P. Rhythmic histone acetylation underlies transcription in the mammalian circadian clock (*with* Lee, C, Wade, P A, Reppert, S M), *Letter to Nature*, **421**, 177
Etienne-Manneville, S. Cdc42 regulates GSK-3β and adenomatous polyposis coli to control cell polarity (*with* Hall, A), *Letter to Nature*, **421**, 753
Eum, S J. *See under* Sung, B-J, **425**, 98
Evans, D. Placebo: The Belief Effect, *Book review by* Brown, W A, **422**, 118
Evans, J E. *See under* Shi, Y, **425**, 516
Evans, J P. Directional postcopulatory sexual selection revealed by artificial insemination (*with* Zane, L, Francescato, S, Pilastro, A), *Letter to Nature*, **421**, 360
Evans, K A. *See under* Mungall, A J, **425**, 805
Even, P C. *See under* Holzenberger, M, **421**, 182
Evenson, E B. *See under* Alley, R B, **424**, 758
Everett, C. *See under* Saveliev, A, **422**, 909
Everett, V. *See under* Ueda, H, **423**, 506
Ewing, J. 'Open access' will not be open to everyone, *Correspondence*, **425**, 559

Fabre, F. *See under* Veaute, X, **423**, 309
Fabretti, P. *See under* Bonatti, E, **423**, 499
Faestermann, T. *See under* Straume, T, **424**, 539
Fahey, T J. *See under* Blum, J D, **423**, 824
Fahraeus, C. *See under* Petersson, P, **424**, 72
Fahrner, K A. Biomechanics: Bacterial flagellar switching under load (*with* Ryu, W S, Berg, H C), *Brief communication*, **423**, 938
Falck, J. *See under* Goldberg, M, **421**, 952
Falcou, A. *See under* Müller, D C, **421**, 829
Falk, D. Worlds apart, *News feature*, **422**, 659
  See under Keenan, J, **424**, 15
Falkowski, P G. *See under* Quigg, A, **425**, 291
Fall, R. *See under* Rosenstiel, T N, **421**, 256
Fallon, S. *See under* McCulloch, M, **421**, 727
Falnes, P O. *See under* Aas, P A, **421**, 859
Falvo, J V. *See under* Huh, W-K, **425**, 686
Famini, D. *See under* Hutchinson, J R, **422**, 493
Fan, L-M. *See under* Coursol, S, **423**, 651
Fan, X. *See under* Walter, F, **424**, 406
Fang, G. *See under* Canman, J C, **424**, 1074
Fanning, E. *See under* Li, D, **423**, 512, **425**, 102
Fara, P. Flesh in the Age of Reason (*by* Porter, R), *Book review*, **426**, 497
Farber, I. Consciousness: An Introduction (*by* Blackmore, S), *Book review*, **426**, 604
Farell, B. *See under* Pelli, D G, **423**, 752
Farkas, L. *See under* Li, Y, **424**, 341
Farmer, H. *See under* Trompouki, E, **424**, 793
Farmer, J D. *See under* Lillo, F, **421**, 129
Farooq, A. *See under* Yan, K S, **426**, 469
Farrelly, D. *See under* Astakhov, S A, **423**, 264
Farrer, I. *See under* Crook, R, **424**, 751
Farzan, M. *See under* Li, W, **426**, 450
Faucher, A-M. *See under* Lamarre, D, **426**, 186, **426**, 314
Fauci, A S. Biodefence of the research agenda, *Commentary*, **421**, 787
Faulkner, L. *See under* Mungall, A J, **425**, 805
Faupl, P. Geochronology: Dating of the Herto hominid fossils (*with* Richter, W, Urbanek, C), *Brief communication*, **426**, 621
Featherstone, C. Outline for a European Research Council (*with* Simons, K), *Correspondence*, **425**, 451
Fee, M S. *See under* Hahnloser, R H R, **421**, 294
Feenstra, B J. *See under* Hayes, R A, **425**, 383
Fehon, R G. *See under* Speck, O, **421**, 83
Fehr, E. Reply: Sociology: The puzzle of human cooperation (*with* Gächter, S), *Brief communication*, **421**, 912
  Detrimental effects of sanctions on human altruism (*with* Rockenbach, B), *Article*, **422**, 137
  The nature of human altruism (*with* Fischbacher, U), *Review article*, **425**, 785
Fei, Y. *See under* Rama Murthy, V, **423**, 163
Felbeck, H. *See under* Dufour, S C, **426**, 65
Felden, B. *See under* Gutmann, S, **424**, 699
Feldman, M W. A genetic melting pot (*with* Lewontin, R C, King, M C), *Concepts*, **424**, 374
  See under Odling-Smee, F J, **425**, 769
Felle, H H. *See under* Radutoiu, S, **425**, 585
Felleman, D J. *See under* Xiao, Y, **421**, 535
Felsenfeld, G. Controlling the double helix (*with* Groudine, M), *Feature*, **421**, 448
Feltwell, T. *See under* Wood, V, **421**, 94
Feng, G. *See under* Buffelli, M, **424**, 430
Feng, H. *See under* Zhong, W, **423**, 885
Feng, J Q. *See under* Zhang, J, **425**, 836
Feng, P. *See under* Zheng, N, **426**, 428
Fenistein, D. Kinematics: Wide shear zones in granular bulk flow (*with* van Hecke, M), *Brief communication*, **425**, 256
Fenn, K M. Consolidation during sleep of perceptual learning of spoken language (*with* Nusbaum, H C, Margoliash, D), *Letter to Nature*, **425**, 614
Fennimore, A M. Rotational actuators based on carbon nanotubes (*with* Yuzvinsky, T D, Han, W-Q, Fuhrer, M S, Cumings, J, Zettl, A), *Letter to Nature*, **424**, 408
Ferguson, H C. *See under* Drinkwater, M J, **423**, 519
Ferguson, N M. Ecological and immunological determinants of influenza evolution (*with* Galvani, A P, Bush, R M), *Letter to Nature*, **422**, 428
  Planning for smallpox outbreaks (*with* Keeling, M J, Edmunds, W J, Gani, R, Grenfell, B T, Anderson, R M, Leach, S), *Review article*, **425**, 681
Ferlet, R. *See under* Vidal-Madjar, A, **422**, 143
Fernandes-Alnemri, T. *See under* Jones, J M, **425**, 721
Fernandez, A. *See under* Jepson, P D, **425**, 575
Fernandez-del Castillo, C. *See under* Thayer, S P, **425**, 851
Ferrante, V. *See under* Bonatti, E, **423**, 499
Ferrara, A. *See under* Schneider, R, **422**, 869
Ferrarese, L. Astronomy: Feeding the first quasars, *News and views*, **421**, 329
Ferraris, J P. *See under* Dalton, A B, **423**, 703
Ferrell Jr, J E. *See under* Xiong, W, **426**, 460
Ferrier, N J. *See under* Kim, S O, **424**, 411
Ferron, C. *See under* Heilig, R, **421**, 601
Ferry, G. A Computer Called LEO: Lyons Teashops and the World's First Office Computer, *Book review by* Ralston, A, **424**, 616
Fersht, A R. *See under* Mayor, U, **421**, 863
Feseha, M. *See under* Kappelman, J, **426**, 549
Festa-Blanchet, M. *See under* Coltman, D W, **426**, 655
Festenstein, R. *See under* Saveliev, A, **422**, 909
Feuermann, D. *See under* Gordon, J M, **424**, 510
Fewell, G. *See under* Skaletsky, H, **423**, 825
Fewell, G A. *See under* Hillier, L W, **424**, 157
Fiegler, H. *See under* d'Adda di Fagagna, F, **426**, 194
Fielder, M. *See under* Tyrrell, D, **422**, 379
Fields, S. *See under* Phizicky, E, **422**, 208
Fields, T A. *See under* Ekstrom, A D, **425**, 184
Filipek, S. *See under* Fotiadis, D, **421**, 127, **426**, 31
Filkowski, J. *See under* Kovalchuk, I, **423**, 760
Findlay, K. *See under* Lodwig, E M, **422**, 722
Fineberg. Materials science: Close-up on cracks, *News and views*, **426**, 131
Finegold, M. *See under* Wang, X, **422**, 897
Finkel, T. Ageing: A toast to long life, *News and views*, **425**, 132
  See under Mills, E M, **426**, 403

Finkel, Z V. *See under* Quigg, A, **425**, 291
Finlay, B B. *See under* Gruenheid, S, **422**, 775
Finne, A P. An intrinsic velocity-independent criterion for superfluid turbulence (*with* Araki, T, Blaauwgeers, R, Eltsov, V B, Kopnin, N B, Krusius, M, Skrbek, L, Tsubota, M, Volovik, G E), *Letter to Nature*, **424**, 1022
Finney, B. *See under* Krummel, E M, **425**, 255
Finney, S M. *See under* Clack, J A, **425**, 65
Firestein, G S. Evolving concepts of rheumatoid arthritis, *Insight review article*, **423**, 356
Fischbacher, U. *See under* Fehr, E, **425**, 785
Fischer, D. *See under* Schulz, M, **422**, 48
Fischer, S R. The History of Reading, *Book review by* Pope, M, **423**, 588
Fischle, W. Binary switches and modification cassettes in histone biology and beyond (*with* Wang, Y, Allis, C D), *Hypothesis*, **425**, 475
Fisher, A T. Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank (*with* Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K), *Letter to Nature*, **421**, 618
Fisk, L A. Over the edge?, *News and views*, **426**, 21
Fisk, Z. Condensed-matter physics: Singular behaviour, *News and views*, **424**, 504
Fistul, V. *See under* Wallraff, A, **425**, 155
Fitch, A N. *See under* Arvanitidis, J, **425**, 599
Fitton, J G. *See under* Stuart, F M, **424**, 57
FitzHugh, W. *See under* Galagan, J E, **422**, 859
Fitzpatrick, D. *See under* Basole, A, **423**, 986
Flanagan, J R. Action plans used in action observation (*with* Johansson, R S), *Letter to Nature*, **424**, 769
Flavell, R. *See under* Diebold, S S, **424**, 324
Fleagle, J. *See under* Kappelman, J, **426**, 549
Fleischer, J W. Observation of two-dimensional discrete solitons in optically induced nonlinear photonic lattices (*with* Segev, M, Efremidis, N K, Christodoulides, D N), *Letter to Nature*, **422**, 147
Flemming, A. *See under* Jumaa, H, **423**, 452
Flenga, A. *See under* Sicardy, B, **424**, 168
Flénl, C. *See under* Trieloff, M, **422**, 502
Fletcher, P. Plant biology: Blooming extension at the roadside, *News and views*, **424**, 31
Flicek, P. *See under* Hillier, L W, **424**, 157
Flitsch, S L. Sugars tied to the spot (*with* Ulijn, R V), *News and views*, **421**, 219
Flore, F. *See under* Nicastro, F, **421**, 719
Flynn, J J. *See under* Yoder, A D, **421**, 734
Foerster, K. Females increase offspring heterozygosity and fitness through extra-pair matings (*with* Delhey, K, Johnsen, A, Lifjeld, J T, Kempenaers, B), *Letter to Nature*, **425**, 714
Foiani, M. Molecular biology: Disruptive influence, *News and views*, **423**, 234
Foley, K. *See under* Galagan, J E, **422**, 859
Foley, S F. Evolution of the Archaean crust by delamination and shallow subduction (*with* Buhre, S, Jacob, D E), *Letter to Nature*, **421**, 249
Fomin, E. *See under* Mitsul, T, **422**, 705
Fonknechten, N. *See under* Heilig, R, **421**, 601
Fonstein, M. *See under* Ivanova, N, **423**, 87
Foo, M L. *See under* Schaak, R E, **424**, 527
Forbes, P. Building on nature, *Exhibition review*, **425**, 241
Ford, T. *See under* Bunce, M, **425**, 172
Foreman, J. Reactive oxygen species produced by NADPH oxidase regulate plant cell growth (*with* Demidchik, V, Bothwell, J H F, Myiona, P, Miedema, H, Torres, M A, Linstead, P, Costa, S, Brownlee, C, Jones, J D G, Davies, J M, Dolan, L), *Letter to Nature*, **422**, 442
Forkey, J N. Three-dimensional structural dynamics of myosin V by single-molecule fluorescence (*with* Quinlan, M E, Shaw, M A, Corrie, J E T, Goldman, Y E), *Article*, **422**, 399
Fornace Jr, A. *See under* Amanullah, A, **424**, 741
Fornari, D J. *See under* Perfit, M R, **426**, 62
Forouhar, A S. *See under* Hove, J R, **421**, 172
Forrest, S R. *See under* Peumans, P, **425**, 158
See under Moller, S, **426**, 166
Forsburg, S L. *See under* Wood, V, **421**, 94
Forster, E. *See under* Sokolowski-Tinten, K, **422**, 287
Fort, A. Prof: The Life of Frederick Lindemann, *Book review by* Young, S, **425**, 770
Fort, P. *See under* Weill, M, **423**, 136, **425**, 366
Fortini, M E. Double trouble for neurons, *News and views*, **425**, 565
Fortune, N A. *See under* Radovan, H A, **425**, 51
Fossen, I. *See under* Møller, P R, **421**, 599
Foster, J. *See under* Houston, F, **423**, 498
Foster, M. *See under* Wang, X, **422**, 897
Foster, R G. *See under* Hattar, S, **424**, 76
Foteinopoulou, S. *See under* Cubukcu, E, **423**, 604
Fotiadis, D. Rhodopsin dimers in native disc membranes (*with* Liang, Y, Filipek, S, Saperstein, D A, Engel, A, Palczewski, K), *Brief communication*, **421**, 127
Reply: Biophysics: Is rhodopsin dimeric in native retinal rods? (*with* Liang, Y, Filipek, S, Saperstein, D A, Engel, A, Palczewski, K), *Brief communication*, **426**, 31
Fouchier, R A M. Aetiology: Koch's postulates fulfilled for SARS virus (*with* Kuiken, T, Schutten, M, van Amerongen, G, van Doornum, G J J, van den Hoogen, B G, Peiris, M, Lim, W, Stohr, K, Osterhaus, A D M E), *Brief communication*, **423**, 240
Fouts, D E. *See under* Read, T D, **423**, 81
Fowler, S B. *See under* Williams, P M, **422**, 446
Fox, D W. Early optical emission from the γ-ray burst of 4 October 2002 (*with* Yost, S, Kulkarni, S R. Torii, K, Kato, T, Yamaoka, H, Sako, M, Harrison, F A, Sari, R, Price, P A, Berger, E, Soderberg, A M, Djorgovski, S G, Barth, A J, Pravdo, S H, Frail, D A, Gal-Yam, A, Lipkin, Y, Mauch, T, Harrison, C, Buttery, H), *Letter to Nature*, **422**, 284
See under Price, P A, **423**, 844
See under Berger, E, **426**, 154
Frail, D A. *See under* Fox, D W, **422**, 284
See under Price, P A, **423**, 844
See under Berger, E, **426**, 154
Frame, I A. *See under* Gaunt, M W, **421**, 936
France-Lanord, C. *See under* Marty, B, **425**, 55
Francescato, S. *See under* Evans, J P, **421**, 360
Francis, M D. *See under* Mungall, A J, **425**, 805
Frank, J. *See under* Rawat, U B S, **421**, 87
Frank, K A. *See under* Krause, A E, **426**, 282
Frank, K T. *See under* Platt, T, **423**, 398
Frank, S A. Darwin's Blind Spot: Evolution Beyond Natural Selection (*by* Ryan, F), *Book review*, **421**, 579
Cell biology: Developmental predisposition to cancer (*with* Nowak, M A), *Brief communication*, **422**, 494
Viral genetics: Deadly partnerships, *News and views*, **425**, 251
Frankel, G S. *See under* Meng, Q, **424**, 389
Frankfort, B J. *See under* Rayapureddi, J P, **426**, 295
Frankish, A. *See under* Mungall, A J, **425**, 805
Frankland, J. *See under* Mungall, A J, **425**, 805
Franklin, K A. *See under* Salter, M G, **426**, 680
Franklyn, J A. *See under* Ueda, H, **423**, 506
Franz, K. *See under* Kurtz, J, **425**, 37
Franzoso, G. *See under* Zazzeroni, F, **424**, 742
Frasch, M. *See under* Lee, H-H, **425**, 507
Fraser, A. *See under* Wood, V, **421**, 94
See under Murphy, C T, **424**, 277
Fraser, A G. *See under* Kamath, R S, **421**, 231
See under Ashrafi, K, **421**, 268
Fraser, C M. *See under* Read, T D, **423**, 81
Fraser, H B. *See under* Hirsh, A E, **421**, 497
Fraser, S E. *See under* Hove, J R, **421**, 172
Freeman, G J. *See under* McIntire, J J, **425**, 576
Freeman, L. Casting light on mystery of auroral flashes, *Correspondence*, **426**, 227
Freeman, M. *See under* McQuibban, G A, **423**, 537
Developmental biology: Partners united, *News and views*, **425**, 468
Fregonese, L. Volta: Science and Culture in the Age of Enlightenment (*by* Pancaldi, G), *Book review*, **424**, 999
Frei, P-Y. *See under* Mayor, M, **426**, 386
Freitag, M. *See under* Galagan, J E, **422**, 859
See under Selker, E U, **422**, 893
French, L. *See under* Mungall, A J, **425**, 805
French, R G. *See under* Sánchez-Lavega, A, **423**, 623
Freund, S M V. *See under* Mayor, U, **421**, 863
Frey, H U. Continuous magnetic reconnection at Earth's magnetopause (*with* Phan, T D, Fuselier, S A, Mende, S B), *Letter to Nature*, **426**, 533
Fried, I. *See under* Ekstrom, A D, **425**, 184
Friedberg, E C. DNA damage and repair, *Feature*, **421**, 436
How e-mail raises the spectre of a digital Dark Age (*with* Hagler, H K, Land, K J), *Correspondence*, **423**, 801
Friedlander, A M. *See under* Read, T D, **423**, 81
Friedlander, L. *See under* Heilig, R, **421**, 601
Friedli, M. *See under* Mangeat, B, **424**, 99
Friedman, C. *See under* Heilig, R, **421**, 601
Friedman, R M. Is science losing out in the race for recognition, *Correspondence*, **426**, 495
Friedrich, R. Staphylocoagulase is a prototype for the mechanism of cofactor-induced zymogen activation (*with* Panizzi, P, Fuentes-Prior, P, Richter, K, Verhamme, I, Anderson, P J, Kawabata, S-I, Huber, R, Bode, W, Bock, P E), *Letter to Nature*, **425**, 535
Friehe, C A. *See under* Hristov, T S, **422**, 55
Frieman, J A. *See under* Inada, N, **426**, 810
Friend, S H. *See under* Schadt, E E, **422**, 297
Friml, J. Efflux-dependent auxin gradients establish the apical-basal axis of *Arabidopsis* (*with* Vieten, A, Sauer, M, Weijers, D, Schwarz, H, Hamann, T, Offringa, R, Jürgens, G), *Article*, **426**, 147
See under Reinhardt, D, **426**, 255
Frishman, D. *See under* Galagan, J E, **422**, 859
Fritz, L C. *See under* Kamal, A, **425**, 407
Fritzc, C. *See under* Wood, V, **421**, 94
Froese, D G. *See under* Zazula, G D, **423**, 603
Froguel, P. *See under* Yamauchi, T, **423**, 762
Frohne, H. *See under* Müller, D C, **421**, 829
Frohnhofer, H-G. *See under* Knaut, H, **421**, 279
Frolow, F. *See under* Ben-Shem, A, **426**, 630
Fruchter, A S. *See under* Hjorth, J, **423**, 847
Frumkin, A. *See under* Barkai, R, **423**, 977
Radiometric dating of the Siloam Tunnel, Jerusalem (*with* Shimron, A, Rosenbaum, J), *Letter to Nature*, **425**, 169
Fu, G. *See under* Ren, S-X, **422**, 888
Fu, J. Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR-α (*with* Gaetani, S, Oveisi, F, Verme, J L, Serrano, A, Rodriguez de Fonseca, F, Rosengarth, A, Luecke, H, Di Giacomo, B, Tarzia, G, Piomelli, D), *Letter to Nature*, **425**, 91
Fu, X. Auxin promotes *Arabidopsis* root growth by modulating gibberellin response (*with* Harberd, N P), *Letter to Nature*, **421**, 740
Fu, Y. *See under* Kefalov, V, **425**, 526
Fu, Z. *See under* Li, X, **422**, 618
Fuchs, E. *See under* Bolotin, D, **421**, 594
See under Jamora, C, **422**, 317, **424**, 974
Fuchs, M. *See under* Wood, V, **421**, 94
Fuentes-Prior, P. *See under* Friedrich, R, **425**, 535
Fuentes-Yaco, C. *See under* Platt, T, **423**, 398
Fuglesang, C. *See under* Casolino, M, **422**, 680
Fuhrer, M S. *See under* Fennimore, A M, **424**, 408
Fuhrman, J. Genome sequences from the sea, *News and views*, **424**, 1001
Fujii, R. *See under* Itoh, Y, **422**, 173
Fujii-Kuriyama, Y. *See under* Ohtake, F, **423**, 545
Fujimori, A. *See under* Zhou, X J, **423**, 398
Fujino, M. *See under* Itoh, Y, **422**, 173
Fujisawa, Y. *See under* Itoh, Y, **422**, 173
Fujiwara, M. *See under* Mal, N K, **421**, 350
Fujiwara, T. *See under* Yamazaki, D, **424**, 452
Fujiwara, Y. *See under* Mikkola, H K A, **421**, 547
See under Neumann, C A, **424**, 561
Fujiyoshi, Y. *See under* Miyazawa, A, **423**, 949
Fukami, T. Productivity-biodiversity relationships depend on the history of community assembly (*with* Morin, P J), *Letter to Nature*, **424**, 423
Fukasawa, M. *See under* Hanada, K, **426**, 803
Fukuda, Y. *See under* Nishimoto, S, **424**, 1071
Fukugita, M. The dark side, *News and views feature*, **422**, 489
See under Inada, N, **426**, 810
Fukumoto, E. *See under* Jiang, G, **424**, 334
Fukunishi, H. *See under* Su, H T, **423**, 974
Fukusumi, S. *See under* Itoh, Y, **422**, 173
Fukuyama, H. *See under* Nishimoto, S, **424**, 1071
Fuller, W. Who said 'helix'?, *Commentary*, **424**, 876
Fulton, L. *See under* Heilig, R, **421**, 601
See under Skaletsky, H, **423**, 825
Fulton, L A. *See under* Hillier, L W, **424**, 157
Fulton, R. *See under* Skaletsky, H, **423**, 825
Fulton, R S. *See under* Hillier, L W, **424**, 157
Furey, T S. *See under* Hillier, L W, **424**, 157
Furlan, R. *See under* Pluchino, S, **422**, 688
Furness, R W. Metabolism: It's in the genes, *News and views*, **425**, 779
Furrer, A. *See under* Rüegg, Ch, **423**, 62
Furukawa, R. *See under* Nanayama, F, **424**, 660
Fuselier, S A. *See under* Frey, H U, **426**, 533
Fussmann, G F. *See under* Yoshida, T, **424**, 303
Fuster, J M. Cortex and Mind: Unifying Cognition, *Book review by* Martin, K, **423**, 383
Fynbo, J P U. *See under* Hjorth, J, **423**, 847

Gabaix, X. A theory of power-law distributions in financial market fluctuations (*with* Gopikrishnan, P, Pierou, V, Stanley, H E), *Letter to Nature*, **423**, 267
Gabel, C. *See under* Wood, V, **421**, 94
Gabelli, S B. *See under* Cho, H-S, **421**, 756
Gabet, E. *See under* Burbank, D W, **426**, 652
Gächter, S. *See under* Fehr, E, **421**, 912
Gaetani, S. *See under* Fu, J, **425**, 91
Gage, M J G. Evolutionary biology: Scramble for the eggs, *News and views*, **426**, 22
Gagnon, E. *See under* Houde, M, **425**, 402
Gai, D. *See under* Li, D, **423**, 512, **425**, 102
Gaillardin, C. *See under* Wood, V, **421**, 94
Gal-Yam, A. *See under* Fox, D W, **422**, 284
Galagan, J E. The genome sequence of the filamentous fungus *Neurospora crassa* (*with* Calvo, S E, Borkovich, K A, Selker, E U, Read, N D, Jaffe, D, FitzHugh, W, Ma, L-J, Smirnov, S, Purcell, S, Rehman, B, Elkins, T, Engels, R, Wang, S, Nielsen, C B, Butler, J, Endrizzi, M, Qui, D, Ianakiev, P, Bell-Pedersen, D, Nelson, M A, Werner-Washburne, M, Selitrennikoff, C P, Kinsey, J A, Braun, E L, Zelter, A, Schulte, U, Kothe, G O, Jedd, G, Mewes, W, Staben, C, Marcotte, E, Greenberg, D, Roy, A, Foley, K, Naylor, J, Stange-Thomann, N, Barrett, R, Gnerre, S, Kamal, M, Kamvysselis, M, Mauceli, E, Bielke, C, Rudd, S, Frishman, D, Krystofova, S, Rasmussen, C, Metzenberg, R L, Perkins, D D, Kroken, S, Cogoni, C, Macino, G, Catcheside, D, Li, W, Pratt, R J, Osmani, S A, DeSouza, C P C, Glass, L, Orbach, M J, Berglund, J A, Voelker, R, Yarden, O, Plamann, M, Seiler, S, Dunlap, J, Radford, A, Aramayo, R, Natvig, D O, Alex, L A, Mannhaupt, G, Ebbole, D J, Freitag, M, Paulsen, I, Sachs, M S, Lander, ES, Nusbaum, C, Birren, B), *Article*, **422**, 859
Galas, D. *See under* Hood, L, **421**, 444
Galibert, F. *See under* Wood, V, **421**, 94
Galimi, F. *See under* Herzig, S, **426**, 190
Galison, P. Einstein's Clocks and Poincaré's Maps: Empires of Time, *Book review by* Gray, J, **424**, 879
Gallagher, M T. *See under* Smith, C M, **424**, 657
Galle, B. *See under* Bobrowski, N, **423**, 273
Galleron, N. *See under* Ivanova, N, **423**, 87
Galli, C. A cloned horse born to its dam twin (*with* Lagutina, I, Crotti, G, Colleoni, S, Turini, P, Ponderato, N, Duchi, R, Lazzari, G), *Brief communication*, **424**, 635
Corrigendum: A cloned horse born to its dam twin (*with* Lagutina, I, Crotti, G, Colleoni, S, Turini, P, Ponderato, N, Duchi, R, Lazzari, G), *Brief communication*, **425**, 680
Galli, G. *See under* Martin, R M, **423**, 595
Galli, R. *See under* Pluchino, S, **422**, 688
Galloway, D K. *See under* Chakrabarty, D, **424**, 42
Galloway, J. Fabulous Science: Fact and Fiction in the History of Scientific Discovery (*by* Waller, J), *Book review*, **422**, 19
Gallup Jr, G G. *See under* Keenan, J, **424**, 15

Galper, A. *See under* Casolino, M, **422**, 680
Galun, R. Obituary: Thomas Risley Odhiambo (1931–2003), (*with* Ole-MoiYoi, O K), *News and views*, **425**, 142
Galvani, A P. *See under* Ferguson, N M, **422**, 428
Gamble, C. Television review: Walking with Cavemen (*by* Dale, R), *Book review*, **422**, 473
Gamblin, S J. *See under* Xiao, B, **421**, 652
Gambus, A. *See under* Kanemaki, M, **423**, 720
Gamwell, L. Art after DNA, *Science in culture*, **422**, 817
Gandhi, S P. Three modes of synaptic vesicular recycling revealed by single-vesicle imaging (*with* Stevens, S F), *Article*, **423**, 607
Ganel, T. Visual control of action but not perception requires analytical processing of object shape (*with* Goodale, M A), *Letter to Nature*, **426**, 664
Ganesh, L. The gene product Murr1 restricts HIV-1 replication in resting CD4$^+$ lymphocytes (*with* Burstein, E, Guha-Niyogi, A, Louder, M K, Mascola, J R, Klomp, L W J, Wijmenga, C, Duckett, C S, Nabel, G J), *Letter to Nature*, **426**, 853
Gani, R. *See under* Ferguson, N M, **425**, 681
Ganoth, D. *See under* Busino, L, **426**, 87
Ganz, T. Microbiology: Gut defence, *News and views*, **422**, 478
Gao, H. *See under* Buehler, M J, **426**, 141
Gao, K-Q. Earliest known crown-group salamanders (*with* Shubin, N H), *Letter to Nature*, **422**, 424
Gao, L. *See under* Zhang, H, **424**, 94
Garcia, M L. *See under* Tang, X D, **425**, 531
Garg, V. GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5 (*with* Kathiriya, I S, Barnes, R, Schluterman, M K, Ing, I N, Butler, C A, Rothrock, C R, Eapen, R S, Hirayama-Yamada, K, Joo, K, Matsuoka, R, Cohen, J C, Srivastava, D), *Letter to Nature*, **424**, 443
Garlaschelli, D. Universal scaling relations in food webs (*with* Caldarelli, G, Pietronero, L), *Letter to Nature*, **423**, 165
Garner, P. *See under* Mungall, A J, **425**, 805
Garnett, J. *See under* Mungall, A J, **425**, 805
Garnier, J-M. *See under* Billas, I M L, **426**, 91
Garrett, C. Mixing with latitude, *News and views*, **422**, 477
Garrett, L. *See under* Hirotsune, S, **423**, 91, **426**, 100
Garrett, M A. *See under* Klöckner, H-R, **421**, 821
Garrison, J C. *See under* Wolfe, J T, **424**, 209
Garrity, P A. Developmental biology: How neurons avoid derailment, *News and views*, **422**, 570
Garzon, A. *See under* Wood, V, **421**, 94
Gasparoni, S. *See under* Pan, J-W, **421**, 721, **423**, 417
Gasperini, L. *See under* Bonatti, E, **423**, 499
Gasser, J A. *See under* Ludwig, M-G, **425**, 93
Gaston, K J. Ecology: The how and why of biodiversity, *News and views*, **421**, 900
Gatenby, R A. Cancer summed up (*with* Maini, P K), *Concepts*, **421**, 321
Gates, H. *See under* Chen, Y, **423**, 136
Gatesy, S. Principles of Animal Locomotion (*by* McNeill Alexander, R), *Book review*, **422**, 665
Gattass, R R. *See under* Tong, L, **426**, 816
Gaucher, E A. Inferring the palaeoenvironment of ancient bacteria on the basis of resurrected proteins (*with* Thomson, J M, Burgan, M F, Benner, S A), *Letter to Nature*, **425**, 285
Gauger, S. *See under* Jokat, W, **423**, 962
Gauguet, G. *See under* Heilig, R, **421**, 601
Gaunt, M W. Mechanism of genetic exchange in American trypanosomes (*with* Yeo, M, Frame, I A, Stothard, J R, Carrasco, H J, Taylor, M C, Mena, S S, Veazey, P, Miles, G A J, Acosta, N, Rojas de Arias, A, Miles, M A), *Letter to Nature*, **421**, 936
Gauthier, D J. *See under* Stenner, M D, **425**, 695
Gaviraghi, C. *See under* Ceci, M, **426**, 579
Gaviria Cavero, L. *See under* Sicardy, B, **424**, 168
Gay, C. *See under* Nikolaides, M G, **424**, 1014
Gaynor, R B. *See under* Yamamoto, Y, **423**, 655
Geballe, T H. *See under* Bozovic, I, **422**, 873
Geballe, T R. *See under* McCall, B J, **422**, 500
Gee, H. You aren't what you eat, *News and views*, **424**, 885
A hobbit-forming show, *Exhibition review*, **425**, 455
Evolution: Ending incongruence, *News and views*, **425**, 782
Gegenwart, P. *See under* Custers, J, **424**, 524
Gehl, A. *See under* Pinnaduwage, L A, **425**, 474
Geibel, C. *See under* Custers, J, **424**, 524
Geiduschek, E P. *See under* Juo, Z S, **422**, 534
Geiger, H. *See under* Knaut, H, **421**, 279
Geim, A K. *See under* Novoselov, K S, **426**, 812
Geisbert, J B. *See under* Sullivan, N J, **424**, 681
Geisbert, T W. *See under* Sullivan, N J, **424**, 681
Geisler, R. *See under* Knaut, H, **421**, 279
Geisler, W. Cognitive neuroscience: Practice doesn't make perfect (*with* Murray, R), *News and views*, **423**, 696
Geiss, J. *See under* Bleeker, J A, **421**, 316
Geissler, P L. *See under* Rabani, E, **426**, 271
Geloen, A. *See under* Holzenberger, M, **421**, 182
Gems, D. Ageing: Microarraying mortality (*with* McElwee, J J), *News and views*, **424**, 259
Gendron, E. *See under* Sicardy, B, **424**, 168
Gengyo, Ando, K. *See under* Mizuguchi, S, **423**, 443
Gentles, S. *See under* Wood, V, **421**, 94
Gentner, T Q. Neuronal populations and single cells representing learned auditory objects (*with* Margoliash, D), *Letter to Nature*, **424**, 669
Genty, D. Precise dating of Dansgaard-Oeschger climate oscillations in western Europe from stalagmite data (*with* Blamart, D, Ouahdi, R, Gilmour, M, Baker, A, Jouzel, J, Van-Exter, S), *Letter to Nature*, **421**, 833
Gentzel, M. *See under* Walther, T C, **424**, 689
Georgeaud, V. *See under* Martinez, L O, **421**, 75
Georgel, P. *See under* Hoebe, K, **424**, 743
Georges, M. *See under* Van Laere, A-S, **425**, 832
Gerbeau, P. *See under* Tournaire-Roux, C, **425**, 393
Gerke, L C. *See under* Huh, W-K, **425**, 686
Germain, R N. *See under* Paul, W E, **423**, 237
German, C R. *See under* Edmonds, H N, **421**, 252
Gerstenblith, M R. *See under* Berman, D M, **425**, 846
Gerstner, E. Atomic imaging: Like peas in a 'nanopod', *News and views*, **421**, 804
Electronics: Nanotechnology goes large, *News and views*, **425**, 244
Gessmann, C. *See under* Dubrovinsky, L, **422**, 58
Gettinby, G. *See under* Donnelly, C A, **426**, 834
Gewin, V. Agriculture shock, *News feature*, **421**, 106
A plea for diversity, *News feature*, **422**, 368
Biosphere owner sues sponsor, *News*, **422**, 461
Panel calls for sea change to fisheries policy, *News*, **423**, 577
Ghaemmaghami, S. Global analysis of protein expression in yeast (*with* Huh, W-K, Bower, K, Howson, R W, Belle, A, Dephoure, N, O'Shea, E K, Weissman, J S), *Letter to Nature*, **425**, 737
Gharib, M. *See under* Hove, J R, **421**, 172
Ghazanfar, A A. Facial expression linked to monkey calls (*with* Logothetis, N K), *Brief communication*, **423**, 937
Ghelis, M. *See under* Trieloff, M, **422**, 502
Ghole, Ch.. *See under* Baltuška, A, **422**, 189
Ghori, M J R. *See under* Mungall, A J, **425**, 805
Ghosez, P. *See under* Junquera, J, **422**, 506
Ghosh, D. *See under* Salzman, N H, **422**, 522
Ghosh, S. Entangled quantum state of magnetic dipoles (*with* Rosenbaum, T F, Aeppli, G, Coppersmith, S N), *Letter to Nature*, **425**, 48
Giardina, C P. *See under* Loya, W M, **425**, 705
Gibernau, M. *See under* Seymour, R S, **426**, 243
Gilbert, B. *See under* Zhang, H, **424**, 1025
Gilbert, H. *See under* White, T D, **423**, 742
See under Clark, J D, **423**, 747
Gilbert, J G R. *See under* Mungall, A J, **425**, 805
Gilbert, W. Watson and DNA: Making a Scientific Revolution (*by* McElheny, V K), *Book review*, **421**, 315
Gilby, L M. *See under* Mungall, A J, **425**, 805
Giles, J. Dolly's death leaves researchers woolly on the clone ageing issue (*with* Knight, J), *News*, **421**, 776
Medical council pins hopes on public advocate of science, *News*, **423**, 211
Protests win reprieve for renowned medical lab, *News*, **423**, 573
Fusion cash shortfall leaves JET grounded, *News*, **424**, 4
Europe finds transgenic food hard to swallow, *News*, **424**, 116
Europe offers grants to young stars, *News*, **425**, 225
Across the great divide, *News feature*, **425**, 444
Channel hoppers land chemistry Nobel, *News*, **425**, 651
Damned if they do, damned if they don't, *News feature*, **425**, 656
Biosafety trials darken outlook for transgenic crops in Europe, *News*, **425**, 751
Standards-lab staff up in arms over military link, *News*, **425**, 754
Disease spread leads Britain to pull plug on trial badger cull, *News*, **426**, 4
Museum breaks mould in attempts to lure reluctant visitors, *News*, **426**, 6
Critical comments threaten to open libel floodgate for physics archive, *News*, **426**, 7
Preprint server seeks way to halt plagiarists, *News*, **426**, 7
Bone archives face prospect of dispersal, *News*, **426**, 109
Commercial copying charges hit European academics, *News*, **426**, 217
Iraqis draw up blueprint for revitalized science academy, *News*, **426**, 484
Rapid drug trial offers hope to CJD patients, *News*, **426**, 487
Maths institute planned to meet multiplying demand, *News*, **426**, 594
Elsevier waves goodbye to BioMedNet web portal, *News*, **426**, 744
Giles, J. The lab arm of the law, *News feature*, **422**, 13
The man they love to hate, *News feature*, **423**, 216
UK universities face star treatment in funding revamp, *News*, **423**, 574
UK experts map out route to licensing transgenic crops, *News*, **424**, 358
UK public opposes government on transgenic crops, *News*, **425**, 331
UK considers plans to shake up clinical trials, *News*, **426**, 216
What is there to fear from something so small, *News feature*, **426**, 750
Gilfillan, S. *See under* Treiner, E, **422**, 164, 423, 1018
Gill, M S. *See under* Lithgow, G J, **421**, 125
Gill, S R. *See under* Read, T D, **423**, 81
Gillan, M J. *See under* Vocadlo, L, **424**, 536
Gillespie, K M. *See under* Ueda, H, **423**, 506
Gillespie, P G. *See under* Dumont, R A, **424**, 28
Gillett, N P. Detection of human influence on sea-level pressure (*with* Zwiers, F W, Weaver, A J, Stott, P A), *Letter to Nature*, **422**, 292
Gillett, W. *See under* Hillier, L W, **424**, 157
Gillignan, J M. Precautionary principle cuts costs as well as risks, *Correspondence*, **426**, 227
Gillooly, J. *See under* West, G B, **421**, 713
Gillooly, J F. *See under* Enquist, B J, **423**, 639
Reply: Allometry: How reliable is the biological time clock? (*with* Charnov, E L, Brown, J H, Savage, V M, West, G B), *Brief communication*, **424**, 270
Gillson, C J. *See under* Mungall, A J, **425**, 805
Gilmour, D. *See under* Knaut, H, **421**, 279
Gilmour, M. *See under* Genty, D, **421**, 833
Gilmozzi, R. *See under* Sicardy, B, **424**, 168
Gilroy, L A. *See under* Tadin, D, **424**, 312
Gilroy, S. *See under* Coursol, S, **423**, 651
Gingerich, O. On the Shoulders of Giants: The Great Works of Physics and Anatomy (*by* Hawking, S), *Book review*, **421**, 694
Ginies, C. *See under* Schaal, B, **424**, 68
Gish, W R. *See under* Hillier, L W, **424**, 157
Gisin, N. *See under* Marcikic, I, **421**, 509
Gitlin, L. Corrigendum: Short interfering RNA confers intracellular antiviral immunity in human cells (*with* Karelsky, S, Andino, R), *Letter to Nature*, **423**, 197
Givord, D. *See under* Skumryev, V, **423**, 850
Gizon, L. Wave-like properties of solar supergranulation (*with* Duvall Jr, T L, Schou, J), *Letter to Nature*, **421**, 43
Erratum: Wave-like properties of solar supergranulation (*with* Duvall Jr, T L, Schou, J), *Letter to Nature*, **421**, 764
Glaeser, R. *See under* Sali, A, **422**, 216
Glannone, G. *See under* Jiang, G, **424**, 334
Glantz, M. *See under* Kappelman, J, **426**, 549
Glaser, S. *See under* Pintard, L, **425**, 311
Glass, C K. *See under* Li, X, **426**, 247
Glass, L. Obituary: Arthur T. Winfree (1942–2002), *News and views*, **421**, 34
See under Galagan, J E, **422**, 859
Glasson, S. *See under* Raviv, U, **425**, 163
Glick, A. *See under* Morris, D G, **422**, 169
Glimcher, P W. Decisions, Uncertainty, and the Brain: The Science of Neuroeconomics, *Book review by* Montague, P R, **424**, 371
Glithero, R J. *See under* Mungall, A J, **425**, 805
Glockner, F O. *See under* Kruger, M, **426**, 878
Gloeckler, G. *See under* Krimigis, S M, **426**, 45
Glor, R E. *See under* Losos, J B, **424**, 542
Gloux, S. *See under* Wood, V, **421**, 94
Glover, T W. *See under* Eriksson, M, **423**, 293
Glynn, M W. *See under* Eriksson, M, **423**, 293
Gnerre, S. *See under* Galagan, J E, **422**, 859
Goble, A. *See under* Wood, V, **421**, 94
Goffeau, A. *See under* Wood, V, **421**, 94
Gohle, Ch. *See under* Baltuška, A, **421**, 611
Gohy, J-F. *See under* Raviv, U, **425**, 163
Goklany, I M. How technology can reduce our impact on the Earth (*with* Trewavas, A J), *Correspondence*, **423**, 115
Goldberg, A L. Protein degradation and protection against misfolded or damaged proteins, *Insight review article*, **426**, 895
Goldberg, D E. *See under* Vandermeer, J H, **424**, 881
Goldberg, M. MDC1 is required for the intra-S-phase DNA damage checkpoint (*with* Stucki, M, Falck, J, D'Amours, D, Rahman, D, Pappin, D, Bartek, J, Jackson, S P), *Letter to Nature*, **421**, 952
Goldberger, J. Single-crystal gallium nitride nanotubes (*with* He, R, Zhang, Y, Lee, S, Yan, H, Choi, H-J, Yang, P), *Letter to Nature*, **422**, 599
Goldman, J L. *See under* Duan, X, **425**, 274
Goldman, M. Darwin's Children: Evolution Has Changed the Face of the World (*by* Bear, G), *Book review*, **424**, 726
Goldman, Y E. *See under* Forkey, J N, **422**, 399
Goldmann, W. *See under* Houston, F, **423**, 498
Goldobin, E. *See under* Bozovic, I, **422**, 873
Goldstein, S L. *See under* Michael, P J, **423**, 956
Goltsman, E. *See under* Ivanova, N, **423**, 87
Gomes, R. Planetary science: Conveyed to the Kuiper belt, *News and views*, **426**, 393
Gomez-Roman, N. Direct activation of RNA polymerase III transcription by c-Myc (*with* Grandori, C, Eisenman, R N, White, R J), *Letter to Nature*, **421**, 290
Gompel, N. Genetic mechanisms and constraints governing the evolution of correlated traits in drosophilid flies (*with* Carroll, S B), *Letter to Nature*, **424**, 931
Gonnermann, H M. Explosive volcanism may not be an inevitable consequence of magma fragmentation (*with* Manga, M), *Letter to Nature*, **426**, 432
González, L E. *See under* Hamuy, M, **424**, 651
González, M M. A γ-ray burst with a high-energy spectral component inconsistent with the synchrotron shock model (*with* Dingus, B L, Kaneko, Y, Preece, R D, Dermer, C D, Briggs, M S), *Letter to Nature*, **424**, 749
González-José, R. Craniometric evidence for Palaeoamrican survival in Baja California (*with* González-Martin, A, Hernández, M, Pucciarelli, H M, Sardi, M, Rosales, A, Van der Molen, S), *Letter to Nature*, **425**, 62
González-Martin, A. *See under* González-José, R, **425**, 62
Gonzalez, L. *See under* Houston, F, **423**, 498
Gonzalez-Leon, J A. Low-temperature processing of 'baroplastics' by pressure-induced flow (*with* Acar, M H, Ryu, S-W, Ruzette, A-V G, Mayes, A M), *Letter to Nature*, **426**, 424
Goodale, M A. *See under* Whitney, D, **423**, 869
See under Ganel, T, **426**, 664
Goode, J. *See under* Hoebe, K, **424**, 743
Goodman, L. Form and Function in the Honey Bee, *Book review by Seeley, T D*, **424**, 372
Goodman, M F. *See under* Pham, P, **424**, 103
Goodman, S M. *See under* Yoder, A D, **421**, 734
Gopher, A. *See under* Barkai, R, **423**, 977
Gopikrishnan, P. *See under* Plerou, V, **421**, 130
See under Gabaix, X, **423**, 267
Gordon, A. *See under* Kappelman, J, **426**, 549

Gordon, A L. Oceanography: The brawniest retroflection, *News and views*, **421**, 904
Cool Indonesian throughflow as a consequence of restricted surface layer flow (*with* Susanto, R D, Vranes, K), *Letter to Nature*, **425**, 824
Gordon, D M. *See under* Greene, M J, **423**, 32
Gordon, J M. Fibre optics: Surgery by sunlight on live animals (*with* Feuermann, D, Huleihil, M, Mizrahi, S, Shaco-Levy, R), *Brief communication*, **424**, 510
Gordon, L B. *See under* Eriksson, M, **423**, 293
Gore, J. *See under* Bryant, Z, **424**, 338
Gorenstein, P. *See under* Skinner, G, **426**, 245
Görlsch, H. *See under* Bunge, M, **421**, 357
Gorman, D. *See under* Cua, D J, **421**, 744
Gorosabel, J. *See under* Hjorth, J, **423**, 847
Gorrini, C. *See under* Ceci, M, **426**, 579
Goshima, Y. *See under* Nishiyama, M, **423**, 990
Goss, S H. *See under* Meng, Q, **424**, 389
Goto, S. *See under* Nelson, C, **421**, 187
Goto, T. *See under* Kimura, T, **426**, 55
Gotta, M. *See under* Kamath, R S, **421**, 231
Gottmann, K. *See under* Missler, M, **423**, 939
Gouaux, E. *See under* Zagotta, W N, **425**, 200
Goudreau, N. *See under* Lamarre, D, **426**, 186, **426**, 314
Gough, M. Politicizing Science: The Alchemy of Policymaking, *Book review by* Grant, P M, **425**, 663
Gough, S C L. *See under* Ueda, H, **423**, 506
Gough, T S. *See under* Schwarz-Linek, U, **423**, 177
Gould, S J. The Hedgehog, the Fox, and the Magister's Pox: Mending the Gap Between Science and the Humanities, *Book review by* Hull, D, **422**, 810
Goulder, P J R. *See under* Altfeld, M, **423**, 461
Goulielmakis, E. *See under* Baltuška, A, **421**, 611, **422**, 189
Gounon, P. *See under* Bigay, J, **426**, 563
Gout, E. *See under* Tournaire-Roux, C, **425**, 393
Gouyvenoux, M. *See under* Heilig, R, **421**, 601
Gowers, W T. Prime Obsession: Bernhard Riemann and the Greatest Unsolved Problem in Mathematics (*by* Derbyshire, J), *Book review*, **425**, 562
The Music of the Primes: Why an Unsolved Problem in Mathematics Matters (*by* du Sautoy, M), *Book review*, **425**, 562
Goyette, G. *See under* Houde, M, **425**, 402
Grabbe, C. *See under* Englund, C, **425**, 512
Grachev, I A. *See under* Milner-Gulland, E J, **422**, 135
Graf, P. Hive beetle causes a buzz in Europe, *News*, **423**, 793
See under Abbott, A, **424**, 117
Grafham, D V. *See under* Mungall, A J, **425**, 805
Graham, A C. *See under* Crook, R, **424**, 751
Graham, D W. *See under* Edmonds, H N, **421**, 252
See under Michael, P J, **423**, 956
Gramm, C F. *See under* Danial, N N, **424**, 952
Grammenoudi, S. *See under* Delneri, D, **422**, 68
Gramolini, A O. *See under* Mohler, P J, **421**, 634
Grana, T M. *See under* Bivona, T G, **424**, 694
Granato, A. *See under* Jasmin, L, **424**, 316
Grande, L A. *See under* Cook, D L, **421**, 66, **423**, 197
Grandori, C. *See under* Gomez-Roman, N, **421**, 290
Grangier, P. *See under* Grosshans, F, **421**, 238
Granick, S. Materials science: Molecules squeezed and stroked (*with* Lin, Z, Bae, S C), *News and views*, **425**, 467
Granite, S. *See under* Thomas, J W, **424**, 788
Granot, J. Astrophysics: Refreshed shocks from a γ-ray burst (*with* Nakar, E, Piran, T), *Brief communication*, **426**, 138
Grant, M. *See under* Mungall, A J, **425**, 805
Grant, P M. Hydrogen lifts off — with a heavy load, *Commentary*, **424**, 129
Politicizing Science: The Alchemy of Policymaking (*by* Gough, M), *Book review*, **425**, 663
Grassucci, R A. *See under* Rawat, U B S, **421**, 87
Gratton, S. Cosmology: Beyond the inflationary border (*with* Steinhardt, P), *News and views*, **423**, 817
Grätzel, M. Applied physics: Solar cells to dye for, *News and views*, **421**, 586
Gratzer, W. Cassell's Laws of Nature: An A-Z of Laws and Principles Governing the Workings of Our Universe/The Nature of Science: An A-Z Guide to the Laws and Principles Governing Our Universe (*by* Trefil, J), *Book review*, **421**, 578
A Short History of Nearly Everything (*by* Bryson, B), *Book review*, **424**, 725
Eight Preposterous Propositions: From the Genetics of Homosexuality to the Benefits of Global Warming (*by* Ehrlich, R), *Book review*, **426**, 766
Grav, T. *See under* Greiner, J, **426**, 157
Graves, T. *See under* Skaletsky, H, **423**, 825
Graves, T A. *See under* Hillier, L W, **424**, 157
Gray, G. Objective assessment of transgenic salmon, *Correspondence*, **421**, 889
Gray, J. Einstein's Clocks and Poincaré's Maps: Empires of Time (*by* Galison, P), *Book review*, **424**, 879
Gray, N S. Violence viewed by psychopathic murderers (*with* MacCulloch, M J, Smith, J, Morris, M, Snowden, R J), *Brief communication*, **423**, 497
Gray, R D. Language-tree divergence times support the Anatolian theory of Indo-European origin (*with* Atkinson, Q D), *Letter to Nature*, **426**, 435
Grazul, J L. *See under* Sundar, V C, **424**, 899
Greaves, J. *See under* Duncan, R R, **422**, 176
Grechkin, Y. *See under* Ivanova, N, **423**, 87
Green, C J. *See under* Rohani, P, **422**, 865
Green, C L. *See under* Dajee, M, **421**, 639
Green, C S. Action video game modifies visual selective attention (*with* Bavelier, D), *Letter to Nature*, **423**, 534
Green, E D. *See under* Collins, F S, **422**, 835
See under Hillier, L W, **424**, 157
See under Thomas, J W, **424**, 788
Green, E M. *See under* Hamuy, M, **424**, 651
Green, H. *See under* Paul, A, **421**, 51
Green II, H W. Earth science: Tiny triggers deep down, *News and views*, **424**, 893
Green, J M. *See under* Kemper, C, **421**, 388
Green, P. *See under* Thomas, J W, **424**, 788
Greenberg, A. The Art of Chemistry: Myths, Medicines and Materials, *Book review by* Emsley, J, **421**, 790
Candid Science III: More Conversations with Famous Chemists (*by* Hargittai, I, Hargittai, M), *Book review*, **423**, 687
Greenberg, D. *See under* Galagan, J E, **422**, 859
Greenberg, E P. Tiny teamwork, *Concepts*, **424**, 134
Greenberg, M E. *See under* Danial, N N, **424**, 952
Greene, M J. Social insects: Cuticular hydrocarbons inform task decisions (*with* Gordon, D M), *Brief communication*, **423**, 32
Greenfield, S. Tomorrow's People: How 21st Century Technology is Changing the Way we Think and Feel, *Book review by* Konner, M, **426**, 385
Greenough, T C. *See under* Li, W, **426**, 450
Gregan, J. Eastern Europe nurtures talent for the West, *Correspondence*, **421**, 786
Greger, B. *See under* Rizzuto, D S, **424**, 369
Gregg, J W. Urbanization effects on tree growth in the vicinity of New York City (*with* Jones, C G, Dawson, T E), *Letter to Nature*, **424**, 183
Gregg, M C. Reduced mixing from the breaking of internal waves in equatorial waters (*with* Sanford, T B, Winkel, D P), *Letter to Nature*, **422**, 513
Gregg, M D. *See under* Drinkwater, M J, **423**, 519
See under Inada, N, **426**, 810
Gregory, S. *See under* Ueda, H, **423**, 506
Gregory-Eaves, I. *See under* Krummel, E M, **425**, 255
Greif, K F. Academics are teachers and colleagues too, *Correspondence*, **421**, 13
Greig, D. *See under* Acevedo-Whitehouse, K, **422**, 35
Greiner, J. *See under* Hjorth, J, **423**, 847
Evolution of the polarization of the optical afterglow of the γ-ray burst GRB030329 (*with* Klose, S, Reinsch, K, Schmid, H M, Sari, R, Hartmann, D H, Kouveliotou, C, Rau, A, Palazzi, E, Straubmeier, C, Stecklum, B, Zharikov, S, Tovmassian, G, Barnbanter, O, Ries, C, Jehin, E, Henden, A, Kaas, A A, Grav, T, Hjorth, J, Pedersen, H, Wijers, R A M J, Kaufer, A, Park, H-S, Williams, G, Reimer, O), *Letter to Nature*, **426**, 157
Greiner, M. Emergence of a molecular Bose-Einstein condensate from a Fermi gas (*with* Regal, C A, Jin, D S), *Letter to Nature*, **426**, 537
Gremillet, D. The Adelie Penguin: Bellwether of Climate Change (*by* Ainley, D G), *Book review*, **422**, 264
Grenfell, B T. *See under* Keeling, M J, **421**, 136
See under Rohani, P, **422**, 865
See under Ferguson, N M, **425**, 681
Greven, M. *See under* van der Marel, D, **425**, 271
See under Mang, P K, **426**, 139
Gribbin, J. FitzRoy: The Remarkable Story of Darwin's Captain and the Invention of the Weather Forecast (*with* Gribbin, M), *Book review by* Thomson, K, **425**, 18
Gribbin, M. *See under* Gribbin, J, **425**, 18
Gribble, S. *See under* Mungall, A J, **425**, 805
Grier, D G. Fluid dynamics: Vortex rings in a constant electric field, *Brief communication*, **424**, 267
A revolution in optical manipulation, *Insight review article*, **424**, 810
Griffin, K L. *See under* Rosenstiel, T N, **421**, 256
Griffith, S C. Evolutionary biology: Why do birds engage in extra-pair copulation? (*with* Montgomerie, R), *Brief communication*, **422**, 833
Griffiths, A J F. Travel grants available for genetics congress, *Correspondence*, **421**, 313
Griffiths, C. *See under* Mungall, A J, **425**, 805
Griffiths, G. *See under* Walther, T C, **424**, 689
Griffiths, R W. *See under* Kincaid, C, **425**, 58
Grigera, T S. Phonon interpretation of the 'boson peak' in supercooled liquids (*with* Martin-Mayor, V, Parisi, G, Verrocchio, P), *Letter to Nature*, **422**, 289
Grigorieva, I V. *See under* Novoselov, K S, **426**, 812
Grillo, S E. Leonardo know the fluid boundaries of science, *Correspondence*, **426**, 15
Grimwood, J. Six is seventh (*with* Schmutz, J), *News and views*, **425**, 775
Gritti, A. *See under* Pluchino, S, **422**, 688
Grob, G. The Deadly Truth: A History of Disease in America, *Book review by* Bynum, W F, **423**, 19
Grob, G N. The Confinement of the Insane: International Perspectives, 1800–1965 (*by* Porter, R, Wright, D), *Book review*, **426**, 230
Groh, S. *See under* Bansal, D, **423**, 168
Grompe, M. *See under* Wang, X, **422**, 897
Gronlund, M. *See under* Radutoiu, S, **425**, 585
Gros, V. *See under* Krol, M C, **421**, 131
Gross, R. *See under* Alff, L, **422**, 698
Grosshans, F. Quantum key distribution using gaussian-modulated coherent states (*with* Van Assche, G, Wenger, J, Brouri, R, Cerf, N J, Grangier, P), *Letter to Nature*, **421**, 238
Grossman, J G. *See under* Mayor, U, **421**, 863
Groudine, M. *See under* Felsenfeld, G, **421**, 448
Grove-White, R. GM-debate methodology works in the real world, *Correspondence*, **426**, 495
Gruber, T. *See under* Mller, M M, **424**, 309, **426**, 584
Gruebele, M. *See under* Yang, W Y, **423**, 193
Gruenheid, S. Microbial pathogenesis and cytoskeletal function (*with* Finlay, B B), *Insight review article*, **422**, 775
Grunewald, U. *See under* Mudelsee, M, **425**, 166
Grymonprez, B. *See under* Wood, V, **421**, 94
Gu, W-Y. *See under* Ren, S-X, **422**, 888
Gu, X. *See under* Gu, Z, **421**, 63
Gu, Y. *See under* Wong, K-K, **421**, 643
Good to CU (*with* Sundquist, W I), *News and views*, **424**, 21
Gu, Z. Role of duplicate genes in genetic robustness against null mutations (*with* Steinmetz, L M, Gu, X, Scharfe, C, Davis, R W, Li, W-H), *Letter to Nature*, **421**, 63
Guan, X. *See under* Thomas, J W, **424**, 788
Guardavaccaro, D. *See under* Busino, L, **426**, 87
Guardiola, E. Dali and the double helix (*with* Banos, J-E), *Correspondence*, **423**, 917
Guarente, L. Ageless Quest: One Scientist's Search for Genes That Prolong Youth, *Book review by* Partridge, L, **421**, 789
Guatimosim, S. *See under* Mohler, P J, **421**, 634
Güdel, H-U. *See under* Rüegg, Ch, **423**, 62
Guelin, M. *See under* Solomon, P, **426**, 636
Guerin, T. *See under* Heilig, R, **421**, 601
Guerini, D. *See under* Ludwig, M-G, **425**, 93
Guermonprez, P. ER-phagosome fusion defines an MHC class I cross-presentation compartment in dendritic cells (*with* Saveanu, L, Kleijmeer, M, Davoust, J, van Endert, P, Amigorena, S), *Letter to Nature*, **425**, 397
Guerrero, L E. *See under* Cabrera, J L, **421**, 786
Guha-Niyogi, A. *See under* Ganesh, L, **426**, 853
Guibert, B. *See under* Renault, L, **426**, 525
Guide, S. Implementation of the Deutsch–Jozsa algorithm on an ion-trap quantum computer (*with* Riebe, M, Lancaster, G P T, Becher, C, Eschner, J, Häffner, H, Schmidt-Kaler, F, Chuang, I L, Blatt, R), *Letter to Nature*, **421**, 48
See under Schmidt-Kaler, F, **422**, 408
Guja, C. *See under* Ueda, H, **423**, 506
Gulbis, E A. *See under* Long, J C, **421**, 922
Gulland, F. *See under* Acevedo-Whitehouse, K, **422**, 35
Gullberg, D. Cell biology: The molecules that make muscle, *News and views*, **424**, 138
Gunawardena, J. Universities in the Marketplace: The Commercialization of Higher Education (*by* Bok, D), *Book review*, **424**, 489
Gundersen, G G. *See under* Palazzo, A, **421**, 230
Gung, Y. Global anisotrophy and the thickness of continents (*with* Panning, M, Romanowicz, B), *Letter to Nature*, **422**, 707
Gunn, J E. *See under* Inada, N, **426**, 810
Gunter, C. Genetics: Secrets of a porkier porker, *News and views*, **425**, 777
Gunturkun, O. Adult persistence of head-turning asymmetry, *Brief communication*, **421**, 711
Addendum: Adult persistence of head-turning asymmetry, *Brief communication*, **422**, 834
Guo, B. Humanin peptide suppresses apoptosis by interfering with Bax activation (*with* Zhai, D, Cabezas, E, Welsh, K, Nouraini, S, Satterthwait, A C, Reed, J C), *Letter to Nature*, **423**, 456
Guo, F. *See under* Salvador, J R, **425**, 702, **426**, 584
Guo, J. *See under* Javey, A, **424**, 654
Guo, S. *See under* Spicer, R A, **421**, 622
Guo, X-K. *See under* Ren, S-X, **422**, 888
Gupta, A K. Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean (*with* Anderson, D M, Overpeck, J T), *Letter to Nature*, **421**, 354
Gupta, J. *See under* Thomas, J W, **424**, 788
Gupta, S. *See under* Jones, J M, **425**, 721
Gurusiddappa, S. *See under* Schwarz-Linek, U, **423**, 177
Guthrie, R D. Rapid body size decline in Alaskan Pleistocene horses before extinction, *Letter to Nature*, **426**, 169
Gutmann, S. Crystal structure of the transfer-RNA domain of transfer-messenger RNA in complex with SmpB (*with* Haebel, P W, Metzinger, L, Sutter, M, Felden, B, Ban, N), *Letter to Nature*, **424**, 699
Guttmacher, A E. *See under* Collins, F S, **422**, 835
Guydosh, N R. *See under* Mayor, U, **421**, 863
Guyer, M S. *See under* Collins, F S, **422**, 835
Guyot, J-L. *See under* Aalto, R, **425**, 493
Gwilliam, R. *See under* Wood, V, **421**, 94
Gwinn, M. *See under* Read, T D, **423**, 81
Gwynn-Jones, D. *See under* Johnson, D, **423**, 138
Gyapay, G. *See under* Heilig, R, **421**, 601
Gygi, S P. *See under* Danial, N N, **424**, 952
Gysin, S. *See under* Thayer, S P, **425**, 851

Haack, H. *See under* Bizzarro, M, **421**, 931
Habeck, H. *See under* Knaut, H, **421**, 279
Habermann, A. *See under* Walther, T C, **424**, 689
Habicht, K. *See under* Rüegg, Ch, **423**, 62
Hadjipanayis, G. *See under* Skumryev, V, **423**, 850
Haebel, P W. *See under* Gutmann, S, **424**, 699
Häffner, H. *See under* Guide, S, **421**, 48
See under Schmidt-Kaler, F, **422**, 408
Haffray, S. *See under* Heilig, R, **421**, 601
Hafner, S D. Ecology: Is fertilization efficiency misleading?, *Brief communication*, **422**, 397
Haft, D H. *See under* Read, T D, **423**, 81
Hagele, D. *See under* Kaindl, R A, **423**, 734
Hager, R. The genetic basis of family conflict resolution in mice (*with* Johnstone, R A), *Letter to Nature*, **421**, 533

Haghighi, P. *See under* Thomas, J W, **424**, 788
Hagler, H K. *See under* Friedberg, E C, **423**, 801
Hagner, U. *See under* Knaut, H, **421**, 279
Hahn, B H. *See under* Wei, X, **422**, 307, **423**, 197
Hahn, J H. *See under* Taub, J, **421**, 764
Hahnloser, R H R. Erratum: An ultra-sparse code underlies the generation of neural sequences in a songbird (*with* Kozhevnikov, A A, Fee, M S), *Letter to Nature*, **421**, 294
Haig, D. Behavioural genetics: Family matters, *News and views*, **421**, 491
Hairston Jr, N. Phosphorus: time for us to oust bad spelling, *Correspondence*, **426**, 119
Hairston Jr, N G. *See under* Yoshida, T, **424**, 303
Hajnoczky, G. *See under* Jones, J M, **425**, 721
Haley, C S. *See under* Van Laere, A-S, **425**, 832
Hall, A. *See under* Etienne-Manneville, S, **421**, 753
Hall, C. Hydrocarbons and the evolution of human culture (*with* Tharakan, P, Hallock, J, Cleveland, C, Jefferson, M), *Insight commentary*, **426**, 318
Hall, D. *See under* Radovan, H A, **425**, 51
Hall, D T. *See under* Elliot, J L, **424**, 165
Hall, E J. *See under* Yin, Y, **422**, 527
Hall, K R. *See under* Root, T L, **421**, 57
Hall, R. *See under* Mungall, A J, **425**, 805
Hall, S. Merchants of Immortality: Chasing the Dream of Human Life Extension, *Book review by* Olshansky, S J, **424**, 880
Hallberg, B. *See under* Englund, C, **425**, 512
Halliday, A N. Cosmochemistry: Inside the cosmic blender, *News and views*, **425**, 137
Halliwell, B. Plasma antioxidants: Health benefits of eating chocolate?, *Brief communication*, **426**, 787
Hallmayer, J F. *See under* McIntire, J J, **425**, 576
Hallock, J. *See under* Hall, C, **426**, 318
Halls, K S. *See under* Mungall, A J, **425**, 805
Halnaut, O R. *See under* Sicardy, B, **424**, 168
Halsey, T C. Mechanics: Friction in spin, *News and views*, **424**, 1005
Hamann, T. *See under* Friml, J, **426**, 147
Hamilton, D C. *See under* Krimigis, S M, **426**, 45
Hamilton, D P. Planetary science: Jupiter's moonopoly, *News and views*, **423**, 235
Hamilton, M J. *See under* Leslie Jr, D M, **424**, 127
Hamilton, V E. Planetary science: Volcanism or aqueous alteration on Mars? (*with* Christensen, P R, Bandfield, J L), *Brief communication*, **421**, 711
Hamlin, N. *See under* Wood, V, **421**, 94
Hamm, C E. Architecture and material properties of diatom shells provide effective mechanical protection (*with* Merkel, R, Springer, O, Jurkojc, P, Maier, C, Prechtel, K, Smetacek, V), *Letter to Nature*, **421**, 841
Hammadi, R. *See under* Heilig, R, **421**, 601
Hammami, A. Lithium-ion batteries: Runaway risk of forming toxic compounds (*with* Raymond, N, Armand, M), *Brief communication*, **424**, 635
Hammer, R E. *See under* Missler, M, **423**, 939
Hammond, S. *See under* Mungall, A J, **425**, 805
Hammond, S M. *See under* Caudy, A M, **425**, 411
Hamuy, M. An asymptotic-giant-branch star in the progenitor system of a type Ia supernova (*with* Phillips, M M, Suntzeff, N B, Maza, J, González, L E, Roth M, Krisciunas, K, Morrell, N, Green, E M, Persson, S E, McCarthy, P J), *Letter to Nature*, **424**, 651
Han, A. Sequence-specific recruitment of transcriptional co-repressor Cabin1 by myocyte enhancer factor-2 (*with* Pan, F, Stroud, J C, Youn, H-D, Liu, J O, Chen, L), *Letter to Nature*, **422**, 730
See under Yan, K S, **426**, 469
Han, B. *See under* Li, X, **422**, 618
Han, J. *See under* Shu, D-G, **421**, 526
See under Hoebe, K, **424**, 743
See under Lee, Y, **425**, 415
Han, S. A cell surface receptor mediates extracellular Ca^{2+} sensing in guard cells (*with* Tang, R, Anderson, L K, Woerner, T E, Pei, Z-M), *Letter to Nature*, **425**, 196
Han, W-Q. *See under* Fennimore, A M, **424**, 408
Hanada, K. Molecular machinery for non-vesicular trafficking of ceramide (*with* Kumagai, K, Yasuda, S, Miura, Y, Kawano, M, Fukasawa, M, Nishijima, M), *Article*, **426**, 803
Hanash, S. Disease proteomics, *Insight review article*, **422**, 226
Hance, I R. *See under* Read, T D, **423**, 81
Handcock, M S. *See under* Jones, J H, **423**, 605
Hankins, M W. *See under* Hattar, S, **424**, 76
Hankins, T H. Nanosecond radio bursts from strong plasma turbulence in the Crab nebula (*with* Kern, J S, Weatherall, J C, Ellek, J A), *Letter to Nature*, **422**, 141
Hanna, P C. *See under* Read, T D, **423**, 81
Hannahs, S T. *See under* Radovan, H A, **425**, 51
Hannon, G J. *See under* Caudy, A M, **425**, 411
Hannonen, M. Sociobiology: Worker nepotism among polygynous ants (*with* Sundstrom, L), *Brief communication*, **421**, 910
Hänsch, T W. *See under* Baltuška, A, **421**, 611, **422**, 189
Hansen, C M E. *See under* Battin, T J, **426**, 439
Hansen, N F. *See under* Thomas, J W, **424**, 788
Hanson, J L. *See under* Anest, V, **423**, 659
Hao, E. *See under* Jin, R, **425**, 487
Haq, A K. *See under* Bates, S H, **421**, 856
Hara, K. *See under* Yamauchi, T, **423**, 762
Hara, Y. *See under* Nakano, H, **421**, 158
Harada, M. *See under* Itoh, Y, **422**, 173
Harada, S. Control of osteoblast function and regulation of bone mass (*with* Rodan, G A), *Insight review article*, **423**, 349
Haramis, A-P G. *See under* Hurlstone, A F L, **425**, 633
Harberd, N P. *See under* Fu, X, **421**, 740
Hardie, R C. *See under* Niven, J E, **421**, 630
Hargittai, I. Candid Science III: More Conversations with Famous Chemists (*with* Hargittai, M), *Book review by* Greenberg, A, **423**, 687
How to Win the Nobel Prize: An Unexpected Life In Science (*by* Bishop, J M), *Book review*, **423**, 921
Hargittai, M. *See under* Hargittai, I, **423**, 687
Hari, P. Atmospheric neuroscience: Ultraviolet light and leaf emission of Nox (*with* Raivonen, M, Vesala, T, Munger, J W, Pilegaard, K, Kulmala, M), *Brief communication*, **422**, 134
Harington, C R. *See under* Zazula, G D, **423**, 603
See under Tedford, R H, **425**, 388
Harkins, R. *See under* Hillier, L W, **424**, 157
Harland, R M. *See under* Warren, S M, **422**, 625
Harley, E H. *See under* Miller-Butterworth, C M, **424**, 187
Harley, H E. Bottlenose dolphins perceive object features through echolocation (*with* Putman, E A, Roitblat, H L), *Letter to Nature*, **424**, 667
Harley, J L. *See under* Mungall, A J, **425**, 805
Harlow, J. *See under* Altfeld, M, **423**, 461
Harper, J W. *See under* Xu, L, **425**, 316
Harrington, R. *See under* Percy, K E, **421**, 190
Harris, A. *See under* Hillier, L W, **424**, 157
Harris, D. *See under* Wood, V, **421**, 94
Harris, K D. Organization of cell assemblies in the hippocampus (*with* Csicsvari, J, Hirase, H, Dragol, G, Buzsáki, G), *Letter to Nature*, **424**, 552
Harris, N B W. *See under* Spicer, R A, **421**, 622
Harris, S. *See under* Baker, P J, **423**, 400
See under Zhang, J, **425**, 836
Harris, W A. Developmental biology: Clocking the birth of neurons, *News and views*, **425**, 568
Harrison, C. *See under* Fox, D W, **422**, 284
Harrison, F A. *See under* Fox, D W, **422**, 284
See under Price, P A, **423**, 844
Harrison, N L. *See under* Kash, T L, **421**, 272
Harrop, S R. *See under* Oldfield, T E E, **423**, 531
Hart, E A. *See under* Mungall, A J, **425**, 805
Hart, S C. *See under* Stark, J M, **423**, 137
Hart, W K. *See under* Clark, J D, **423**, 747
Reply: Geochronology: Dating of the Herto hominid fossils (*with* WoldeGabriel, G, Katoh, S, Renne, P R, Suwa, G, Asfaw, B, White, T D), *Brief communication*, **426**, 622
Hart-Davis, D. Audubon's Elephant: The Story of John James Audubon's Epic Struggle to Publish The Birds of America, *Book review by* Knight, D, **426**, 767
Harte, B. *See under* Schulze, D J, **423**, 68
Harte, J. Tail of death and resurrection, *News and views*, **424**, 1006
Hartley, R R. Logarithmic rate dependence of force networks in sheared granular materials (*with* Behringer, R P), *Letter to Nature*, **421**, 928
Hartmann, D H. *See under* Greiner, J, **426**, 157
Harvey, P H. Evolution: Opportunity versus innovation (*with* Purvis, A), *News and views*, **425**, 676
Hasbani, R. *See under* Niikura, H, **421**, 826
Hase, M. The birth of a quasiparticle in silicon observed in time-frequency space (*with* Kitajima, M, Constantinescu, A M, Petek, H), *Letter to Nature*, **426**, 51
Hasegawa, Y. Violation of a Bell-like inequality in single-neutron interferometry (*with* Loidl, R, Badurek, G, Baron, M, Rauch, H), *Letter to Nature*, **425**, 45
Haselkorn, R. *See under* Ivanova, N, **423**, 87
Hasenstaub, A. *See under* Shu, Y, **423**, 288
Hashida, N. *See under* Nishimoto, S, **424**, 1071
Hassan, M H A. Building bridges through cooperation in science, *Correspondence*, **422**, 559
Hastings, A. Population Ecology: First Principles (*by* Vandermeer, J H, Goldberg, D E), *Book review*, **424**, 881
Haswell, L E. *See under* Diebold, S S, **424**, 324
Hata, H. *See under* Sakaguchi, N, **426**, 454
Hattar, S. Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice (*with* Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W), *Letter to Nature*, **424**, 76
Hatzivassiliou, E. *See under* Trompouki, E, **424**, 793
Haug, J. *See under* Zhang, J, **425**, 836
Haugen, E. *See under* Hillier, L W, **424**, 157
Haugen, T O. *See under* Koskinen, M T, **421**, 656
Haurogne, K. *See under* Mohler, P J, **421**, 634
Hauser, L. *See under* Palenik, B, **424**, 1037
See under Rocap, G, **424**, 1042
Hauser, M. The Face in the Mirror: The Search for the Origins of Consciousness (*by* Keenan, J, Gallup Jr, G G, Falk, D), *Book review*, **424**, 15
Hauser, M-T. *See under* Bonke, M, **426**, 181
Haussler, D. *See under* Thomas, J W, **424**, 788
Haw, M. The light fantastic, *News feature*, **422**, 556
Hawke, S. *See under* White, A R, **422**, 80
Hawking, S. On the Shoulders of Giants: The Great Works of Physics and Anatomy, *Book review by* Gingerich, O, **421**, 694
Hayakawa, H. *See under* Seki, K, **422**, 589
Hayakawa, S. *See under* Takaoka, A, **424**, 516
Hayama, R. Adaptation of photoperiodic control pathways produces short day flowering in rice (*with* Yokoi, S, Tamaki, S, Yano, M, Shimamoto, K), *Letter to Nature*, **422**, 719
Hayar, A. *See under* Aungst, J L, **426**, 623
Hayashi, I. *See under* Takasugi, N, **422**, 438
Hayes, R A. Video-speed electronic paper based on electrowetting (*with* Feenstra, B J), *Letter to Nature*, **425**, 383
Hayles, J. *See under* Wood, V, **421**, 94
Hays, G C. Aircraft give a new view of jellyfish behaviour (*with* Houghton, J D R), *Correspondence*, **426**, 383
Hazen, A. *See under* Read, T D, **423**, 81
Hébrard, G. *See under* Vidal-Madjar, A, **422**, 143
He, J. Detoxification on vinyl chloride to ethene coupled to growth of an anaerobic bacterium (*with* Ritalahti, K M, Yang, K-L, Koenigsberg, S S, Löffler, F E), *Letter to Nature*, **424**, 62
He, R. *See under* Goldberger, J, **422**, 599
He, S. *See under* Tong, L, **426**, 816
He, X. *See under* Zhang, J, **425**, 836
Head, I M. Biological activity in the deep subsurface and the origin of heavy oil (*with* Jones, D M, Larter, S R), *Insight review article*, **426**, 344
Head, J W. Recent ice ages on Mars (*with* Mustard, J F, Kreslavsky, M A, Milliken, R E, Marchant, D R), *Article*, **426**, 797
Healy, B. *See under* Ueda, H, **423**, 506
Heath, P D. *See under* Mungall, A J, **425**, 805
Heath, W R. Immunology: Dangerous liaisons (*with* Carbone, F R), *News and views*, **425**, 460
Heathcott, R. *See under* Mungall, A J, **425**, 805
Hebrok, M. *See under* Thayer, S P, **425**, 851
Hedden, D L. *See under* Pinnaduwage, L A, **425**, 474
Hedegard, P. *See under* Kubatkin, S, **425**, 698
Hedges, R. Puzzling out the past, *Concepts*, **422**, 667
Hedges, R E M. *See under* Richards, M P, **425**, 366
Hedges, S B. The coelacanth of frogs, *News and views*, **425**, 669
Hedrick, S. *See under* Herzig, S, **426**, 190
Hedrick, T L. *See under* Tobalske, B W, **421**, 363
Heemels, M-T. Cell biology: Double trouble with mutant p53, *News and views*, **421**, 709
Taste: Flavour of the week in signalling pathways, *News and views*, **421**, 804
Immunology: Vaccinia on the Toll road, *News and views*, **421**, 907
Immunology: Geared up for antibody production, *News and views*, **422**, 33
Immunology: A numbers game, *News and views*, **422**, 577
Apoptosis: Dead cell talking, *News and views*, **422**, 829
Animal behaviour: A dog's dinner, *News and views*, **423**, 134
Cancer: Brake for cell division, *News and views*, **423**, 238
Flab control, *News and views*, **423**, 395
Cell biology: Rafting for dear life, *News and views*, **423**, 496
Plant biology: Growing pains, *News and views*, **423**, 820
Immunology: Hide and seek, *News and views*, **424**, 31
Developmental biology: Fish in pinstripe suits, *News and views*, **424**, 143
Cell biology: Golgi glue, *News and views*, **424**, 265
Immunology: Who turned on the T cells?, *News and views*, **424**, 740
Cancer: Hostile takeover, *News and views*, **424**, 898
Developmental biology: Creating diversity, *News and views*, **424**, 1011
Molecular biology: Spreading like wildfire, *News and views*, **425**, 253
Physiology: Fat body sizes fly, *News and views*, **425**, 472
Medicine: Cancer-killing virus on a drip, *News and views*, **426**, 28
Medicine: Virus offers life support to cancer, *News and views*, **426**, 242
Immunology: Long gone, but not forgotten, *News and views*, **426**, 402
Developmental biology: Serpin takes its toll, *News and views*, **426**, 514
Cancer: Sporadic insights, *News and views*, **426**, 618
Neurobiology: Amnesia in ageing flies, *News and views*, **426**, 784
Hegde, R S. *See under* Rayapureddi, J P, **426**, 295
Heiblum, M. *See under* Ji, Y, **422**, 415
Heien, M L A V. *See under* Phillips, P E M, **422**, 614, **423**, 461
Heikenwalder, M. *See under* Aguzzi, A, **423**, 127
Heikkila, B. *See under* McDonald, F B, **426**, 48
Heilbron, J L. 1903 and all that (*with* Bynum, W F), *Commentary*, **421**, 15
The Oxford Companion to the History of Modern Science, *Book review by* Huxtable, R J, **424**, 17
1904 and all that (*with* Bynum, W F), *Commentary*, **426**, 761
Heilig, R. The DNA sequence and analysis of human chromosome 14 (*with* Eckenberg, R, Petit, J-L, Fonknechten, N *et al.*[1]), *Article*, **421**, 601

---

[1] **Full author list:** Heilig, R, Eckenberg, R, Petit, J-L, Fonknechten, N, Da Silva, C, Cattolico, L, Levy, M, Barbe, V, de Berardinis, V, Ureta-Vidal, A, Pelletier, E, Vico, V, Anthouard, V, Rowen, L, Madan, A, Qin, S, Sun, H, Du, H, Pepin, K, Artiguenave, F, Robert, C, Cruaud, C, Bruls, T, Jaillon, O, Friedlander, L, Samson, G, Brottier, P, Cure, S, Segurens, B, Aniere, F, Samain, S, Crespeau, H, Abbasi, N, Aiach, N, Boscus, D, Dickhoff, R, Dors, M, Dubois, I, Friedman, C, Gouyvenoux, M, James, R, Madan, A, Mairey-Estrada, B, Mangenot, S, Martins, N, Menard, M, Oztas, S, Ratcliffe, A, Shaffer, T, Trask, B, Vacherie, B, Bellemere, C, Belser, C, Besnard-Laurent, V, Ferron, C, Lechaplais, C, Louesse, C, Muselet, D, Magdelenat, G, Pateau, E, Petit, E, Sirvain-Trukniewicz, P, Trybou, A, Vega-Czarny, N, Bataille, E, Bluet, E, Bordelais, I, Dubois, M, Dumont, C, Guerin, T, Haffray, S, Hammadi, R, Muanga, J, Pellouin, V, Robert, D, Wunderle, E, Gauguet, G, Roy, A, Sainte-Marthe, L, Verdier, J, Verdier-Discala, C, Hillier, L, Fulton, L, McPherson, J, Matsuda, F, Wilson, R, Scarpelli, C, Gyapay, G, Wincker, P, Saurin, W, Quétier, F, Waterston, R, Hood, L, Weissenbach, J

Heiling, A M. Pollinator attraction: Crab-spiders manipulate flower signals (*with* Herberstein, M E, Chittka, L), *Brief communication*, **421**, 334
Heinemann, S H. *See under* Tang, X D, **425**, 531
Heinlein, D. *See under* Spurný, P, **423**, 151
Heinlein, M. *See under* Kovalchuk, I, **423**, 760
Heinrichs, A. Molecular biology: Dynamics of condensed DNA, *News and views*, **421**, 597
Heinz, P. *See under* Witte, U, **424**, 763
Heiser, P W. *See under* Thayer, S P, **425**, 851
Helariutta, Y. *See under* Bonke, M, **426**, 181
Helgason, E. *See under* Read, T D, **423**, 81
Hell, K. *See under* Paschen, S A, **426**, 862
Hellberg, F. *See under* McCall, B J, **422**, 500
Hellinga, H W. *See under* Looger, L L, **423**, 185
Helmer, M. Chemistry: Levitation lights up crystals, *News and views*, **422**, 33
  Microfluidics: Traffic flow, *News and views*, **423**, 238
  Materials science: Rings of excitement, *News and views*, **423**, 818
  Biophysics: Take the intracellular train, *News and views*, **425**, 140
Helms Cahan, S. Complex hybrid origin of genetic caste determination in harvester ants (*with* Keller, L), *Letter to Nature*, **424**, 306
Helms, J A. Cranial skeletal biology (*with* Schneider, R A), *Insight review article*, **423**, 326
Hemleben, Ch. *See under* Siddall, M, **423**, 853
Hemmels, M-T. Plant biology: Ice on top, *News and views*, **422**, 677
Hemmi, J M. Robust judgement of inter-object distance by an arthropod (*with* Zell, J), *Letter to Nature*, **421**, 160
Henden, A. *See under* Bond, H E, **422**, 405
  See under Greiner, J, **426**, 157
Henderson, P A. *See under* Magurran, A E, **422**, 714
Hendon, N. *See under* Bogan, J S, **425**, 727
Hendrey, G R. *See under* Percy, K E, **421**, 190
Hendy, E. *See under* McCulloch, M, **421**, 727
Hengartner, H. *See under* Planz, O, **426**, 474
Henikoff, S. Gene regulation: Versatile assembler, *News and views*, **423**, 814
Henley, J R. *See under* Nishiyama, M, **423**, 990
Hennawi, J F. *See under* Inada, N, **426**, 810
Hennen Kaps, C E. *See under* Knaut, H, **421**, 279
Hentges, K E. *See under* Kile, B T, **425**, 81
Hentschel, M. *See under* Baltuška, A, **421**, 611, **422**, 189
Henze, K. Essence of mitochondria (*with* Martin, W), *News and views*, **426**, 127
Heo, Y-S. *See under* Sung, B-J, **425**, 98
Herberstein, M E. *See under* Heiling, A M, **421**, 334
Herges, R. *See under* Ajami, D, **426**, 819
Herman, A B. *See under* Spicer, R A, **421**, 622
Hernandez, L. *See under* Mounkes, L C, **423**, 298
Hernández, M. *See under* González-José, R, **425**, 62
  See under Tovar, J, **426**, 172
Herr, A B. Insights into IgA-mediated immune responses from the crystal structures of human FcαRI and its complex with IgA1-Fc (*with* Ballister, E R, Bjorkman, P J), *Article*, **423**, 614
Herr, M H. *See under* Ueda, H, **423**, 506
Herraez, P. *See under* Jepson, P D, **425**, 575
Herrick, C. Protecting the Ozone Layer: Science and Strategy (*by* Parson, E A), *Book review*, **422**, 664
  Protecting the Ozone Layer: The United Nations History (*by* Anderson, S O, Sarma, K M), *Book review*, **422**, 664
Herrmann, H J. *See under* Schwammle, V, **426**, 619
Herrwerth, I. *See under* Trieloff, M, **422**, 502
Hershenson, M. The Mystery of the Moon Illusion (*by* Ross, H, Plug, C), *Book review*, **421**, 695
Hershko, A. *See under* Busino, L, **426**, 87
Hertz, P E. *See under* Losos, J B, **424**, 542
Hervas, M. *See under* Molina-Heredia, F P, **424**, 33
Herzig, S. CREB controls hepatic lipid metabolism through nuclear hormone receptor PPAR-γ (*with* Hedrick, S, Morantte, I, Koo, S-H, Galimi, F, Montminy, M), *Letter to Nature*, **426**, 190
Hess, J F. *See under* Ueda, H, **423**, 506
Hess, S T. *See under* Baumgart, T, **425**, 821
Hess, W R. *See under* Rocap, G, **424**, 1042
Hetherington, A M. The role of stomata in sensing and driving environmental change (*with* Woodward, F I), *Review article*, **424**, 901
Hetzer, M. *See under* Walther, T C, **424**, 689
Heward, J. *See under* Ueda, H, **423**, 506
Heyward, P M. *See under* Aungst, J L, **426**, 623
Hibino, T. *See under* Nakano, H, **421**, 158
Hickenbotham, M T. *See under* Hillier, L W, **424**, 157
Hickson, I D. *See under* Wu, L, **426**, 870
Hidalgo, J. *See under* Wood, V, **421**, 94
Higashiguchi, M. *See under* Ishii, H, **426**, 540
Higuchi, H. *See under* Okada, Y, **424**, 574
Higuchi, T. Cell cycle: Passenger acrobatics (*with* Uhlmann, F), *News and views*, **426**, 780
Hilbert, H. *See under* Wood, V, **421**, 94
Hilgenfeldt, S. *See under* Marmottant, P, **423**, 153
Hilgenkamp, H. Ordering and manipulation of the magnetic moments in large-scale superconducting π-loop arrays (*with* Ariando, Smilde, H-J H, Blank, D H A, Rijnders, G, Rogalla, H, Kirtley, J R, Tsuei, C C), *Letter to Nature*, **422**, 50
Hilker, M. *See under* Drinkwater, M J, **423**, 519
Hill, E W. *See under* Novoselov, K S, **426**, 812
Hill, J. *See under* Ansley, S J, **425**, 628
Hill, M E. *See under* Krimigis, S M, **426**, 45
Hillebrands, B. *See under* Demokritov, S O, **426**, 159
Hillel, D. Water from Heaven: The Story of Water from the Big Bang to the Rise of Civilization, and Beyond (*by* Kandel, R), *Book review*, **423**, 587
Hillery, M. Quantum cryptography: Code-breakers confounded, *News and views*, **421**, 224
Hillier, L. *See under* Heilig, R, **421**, 601
  See under Skaletsky, H, **423**, 825
Hillier, L W. The DNA sequence of human chromosome 7 (*with* Fulton, R S, Fulton, L A, Graves, T A *et al.*[2]), *Article*, **424**, 157
Hillyard, S A. *See under* M, M M, **424**, 309, **426**, 584
Hilton, J. *See under* Zhou, Z, **421**, 807
Hilton, N. *See under* Arnold, J, **422**, 821
Hine, A A. *See under* Campbell, B A, **426**, 137
Hinks, J A. *See under* Salmeen, A, **423**, 769
Hintz, L. *See under* Reya, T, **423**, 409
Hinuma, S. *See under* Itoh, Y, **422**, 173
Hirahara, M. *See under* Seki, K, **422**, 589
Hirano, H-Y. *See under* Kikuchi, K, **421**, 167
Hirase, H. *See under* Harris, K D, **424**, 552
Hirayama-Yamada, K. *See under* Garg, V, **424**, 443
Hirochika, H. *See under* Jiang, N, **421**, 163
Hirokawa, N. *See under* Okada, Y, **424**, 574
Hiromura, M. *See under* Choi, C H, **424**, 965
Hiroshi, F. *See under* Li, X, **422**, 618
  See under Kenichi, T, **423**, 971
Hirotsune, S. An expressed pseudogene regulates the messenger-RNA stability of its homologous coding gene (*with* Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A), *Letter to Nature*, **423**, 91
  Addendum: An expressed pseudogene regulates the messenger-RNA stability of its homogulous coding gene (*with* Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A), *Letter to Nature*, **426**, 100
Hirsh, A E. Reply: Genomic function: Rate of evolution and gene dispensability (*with* Fraser, H B), *Brief communication*, **421**, 497
Hirunagi, K. *See under* Yoshimura, T, **426**, 178
Hjort, M. *See under* Kubatkin, S, **425**, 698
Hjorth, J. A very energetic supernova associated with the γ-ray burst of 29 March 2003 (*with* Sollerman, J, Moller, P, Fynbo, J P U, Woosley, S E, Kouveliotou, C, Tanvir, N R, Greiner, J, Andersen, M I, Castro-Tirado, A J, Castro Ceron, J M, Fruchter, A S, Gorosabel, J, Jakobsson, P, Kaper, L, Klose, S, Masetti, N, Pedersen, H, Pedersen, K, Plan, E, Palazzi, E, Rhoads, J E, Rol, E, van den Heuvel, E P J, Vreeswijk, P M, Watson, D, Wijers, R A M J), *Letter to Nature*, **423**, 847
  See under Greiner, J, **426**, 157
Ho, S-L. *See under* Thomas, J W, **424**, 788
Ho, T-Y. *See under* Quigg, A, **425**, 291
Hoag, H. Transgenic salmon still out in the cold in United States, *News*, **421**, 304
  See under Brumfiel, G, **421**, 565, **421**, 565, **421**, 565, **421**, 565, **421**, 565
  Researchers fear the future as Congress settles 2003 budget, *News*, **421**, 774
  Mixed results win HIV vaccine a guarded response, *News*, **421**, 877
  Genomes take pole position in the icy wastes, *News*, **421**, 880
  Coal-fired power plant to bury issue of emissions, *News*, **422**, 7
  Tougher rules aim to prevent gene flow into crops, *News*, **422**, 103
  Biotech firm join charities in drive to help Africa's farms, *News*, **422**, 246
  Chemists' salaries turn south, *News*, **422**, 650
  Historians pool resources to halt trade in Iraq's stolen treasures, *News*, **422**, 789
  Atlantic cod meet icy death, *News*, **422**, 792
  US fails to quantify threat of West Nile virus, *News*, **423**, 104
  Brazilian brain experts plan research village, *News*, **423**, 372
  BSE case rattles Canadian officials, *News*, **423**, 467
  Plant biology: Buttercup bondage, *News and views*, **423**, 598
  Remote control, *News feature*, **423**, 796
Hobert, O. *See under* Johnston, R J, **426**, 845
Hobson, J A. *See under* Walker, M P, **425**, 616
Hochachka, P W. *See under* Darveau, C A, **421**, 714
Hock, H. *See under* Mikkola, H K A, **421**, 547
Hodge, P. The Century of Space Science (*by* Bleeker, J A, Geiss, J, Huber, M C E), *Book review*, **421**, 316
Hodgson, G. *See under* Wood, V, **421**, 94
Hoebe, K. Identification of *Lps2* as a key transducer of MyD88-independent TIR signalling (*with* Du, X, Georgel, P, Janssen, E, Tabeta, K, Kim, S O, Goode, J, Lin, P, Mann, N, Mudd, S, Crozat, K, Sovath, S, Han, J, Beutler, B), *Article*, **424**, 743
Hoernle, K. *See under* Duggen, S, **422**, 602
Hoffman, B. *See under* Amanullah, A, **424**, 741
Hoffman, J E. *See under* McElroy, K, **422**, 592
Hoffman, K-P. *See under* Krekelberg, B, **424**, 674
Hoffmann, J A. The immune response of *Drosophila*, *Review article*, **426**, 33
Hofmann, A W. Earth science: Just add water, *News and views*, **425**, 24
Hofmann, F. *See under* Hattar, S, **424**, 76
Hofstetter, H. *See under* Ludwig, M-G, **425**, 93
Hofstraat, J W. *See under* Welter, S, **421**, 54
Hogan, G E. *See under* Borozdin, K N, **422**, 277
Hogan, J. Dolly firm in trouble after transgenic milk fails to flow, *News*, **423**, 907
  Quantum bits and silicon chips, *News feature*, **424**, 484
Hogan, T. *See under* Salvador, J R, **425**, 702, **426**, 584
Hogg, J T. *See under* Coltman, D W, **426**, 655
Hohenberg, H. *See under* Kerner, M, **422**, 150
Hohn, B. *See under* Kovalchuk, I, **423**, 760
Holbrook, N M. Plant biology: Water gate (*with* Zwieniecki, M A), *News and views*, **425**, 361
Holcombe, A O. *See under* Eagleman, D M, **423**, 15
Hollan Jr, F D. *See under* Carpenter, S J, **423**, 70
Hollander, C. *See under* Amanullah, A, **424**, 741
Holley, S. *See under* Knaut, H, **421**, 279
Holmes, A. Electronic: Polymers light the way, *News and views*, **421**, 800
  See under Hillier, L W, **424**, 157
Holmes, E C. *See under* Walker, P R, **422**, 679
Holmes, K C. Electron cryo-microscopy shows how strong binding of myosin to actin releases nucleotide (*with* Angert, I, Kull, F J, Jahn, W, Schröder, R R), *Letter to Nature*, **425**, 423
Holmes, S J. *See under* Mungall, A J, **425**, 805
Holroyd, S. *See under* Wood, V, **421**, 94
Holt, R R. *See under* Schroeter, H, **426**, 787
Holtzapple, E K. *See under* Read, T D, **423**, 81
Holzenberger, M. IGF-1 receptor regulates lifespan and resistance to oxidative stress in mice (*with* Dupont, J, Ducos, B, Leneuve, P, Geloen, A, Even, P C, Cervera, P, Le Bouc, Y), *Letter to Nature*, **421**, 182
Holzer, E. *See under* Wood, V, **421**, 94
Holzwarth, R. *See under* Baltuška, A, **421**, 611, **422**, 189
Homan, J. *See under* Wijnands, R, **424**, 44
Honda, K. *See under* Takaoka, A, **424**, 516
Hong, K. *See under* Nishiyama, M, **423**, 990
Hong, M. *See under* Wikramanayake, A H, **426**, 446
Hong, S. *See under* Rao, S G, **425**, 36
Hong, W. *See under* Walsh, J P, **422**, 801
Hong, X. *See under* Liu, Y, **423**, 49
Honma, M. *See under* Ose, T, **422**, 185
Honninger, G. *See under* Bobrowski, N, **423**, 273
Hood, L. The digital code of DNA (*with* Galas, D), *Feature*, **421**, 444
  See under Heilig, R, **421**, 601
Hooge, J. *See under* Knaut, H, **421**, 279
Höök, M. *See under* Schwarz-Linek, U, **423**, 177
Hook, P. *See under* Vallee, R B, **421**, 701
Hooper, J N A. Systema Porifera: A Guide to the Classification of Sponges (*with* van Soest, R W M), *Book review by* Berry, L, **421**, 791
Hopkin, M. London's gherkin, *Science in culture*, **422**, 22
  Ecology: Study in blue, *News and views*, **423**, 820
  Evolutionary biology: Compensation claim, *News and views*, **423**, 935
Hopp, J. *See under* Trieloff, M, **422**, 502
Hoppitt, W. *See under* Bunce, M, **425**, 172
Hoque, R. *See under* Taub, J, **421**, 764
Hori, H. *See under* Ono, M, **424**, 637
Horibata, A. *See under* Nakazaki, T, **421**, 170
Horn-von-Hoegen, M. *See under* Sokolowski-Tinten, K, **422**, 287
Horng, M-J. *See under* Dadson, S J, **426**, 648
Horning, N. *See under* Raxworthy, C J, **426**, 837
Hornsby, T. *See under* Wood, V, **421**, 94
Horton, P. *See under* Ruban, A V, **421**, 648
Horton, R. *See under* Mungall, A J, **425**, 805
Horvitz, H R. *See under* Hwang, H-Y, **423**, 439
Hoshi, T. *See under* Tang, X D, **425**, 531
Hoshino, A. *See under* Nishiyama, M, **423**, 990
Hoshino, M. *See under* Seki, K, **422**, 589
Hosie, A H F. *See under* Lodwig, E M, **422**, 722
Hosken, D J. *See under* Martin, O Y, **423**, 979
Hoskins, B E. *See under* Ansley, S J, **425**, 628
Hosoya, M. *See under* Itoh, Y, **422**, 173
Hossfeld, U. Haeckel's literary hopes dashed by materialism? (*with* Nöthlich, R, Olsson, L), *Correspondence*, **424**, 875
Hou, S. *See under* Hillier, L W, **424**, 157
Hou, S-F. *See under* Skaletsky, H, **423**, 825
Houde, M. Phagosomes are competent organelles for antigen cross-presentation (*with* Bertholet, S, Gagnon, E, Brunet, S, Goyette, G, Laplante, A, Princiotta, M F, Thibault, P, Sacks, D, Desjardins, M), *Letter to Nature*, **425**, 402
Houdusse, A. *See under* Coureux, P-D, **425**, 419
Houghton, J D R. *See under* Hays, G C, **426**, 383

---

[2] **Full author list:** Hillier, L W, Fulton, R S, Fulton, L A, Graves, T A Pepin, K H, Wagner-McPherson, C, Layman, D, Maas, J, Jaeger, S, Walker, R, Wylie, K, Sekhon, M, Becker, M C, O'Laughlin, M D, Schaller, M E, Fewell, G A, Delehaunty, K D, Miner, T L, Nash, W E, Cordes, M, Du, H, Sun, H, Edwards, J, Bradshaw-Cordum, H, Ali, J, Andrews, S, Isak, A, VanBrunt, A, Nguyen, C, Du, F, Lamar, B, Courtney, L, Kalicki, J, Ozersky, P, Bielicki, L, Scott, K, Holmes, A, Harkins, R, Harris, A, Strong, C M, Hou, S, Tomlinson, C, Dauphin-Kohlberg, S, Kozlowicz-Reilly, A, Leonard, S, Rohlfing, T, Rock, S M, Tin-Wollam, A-M, Abbott, A, Minx, P, Maupin, R, Strowmatt, C, Latreille, P, Miller, N, Johnson, D, Murray, J, Woessner, J P, Wendl, M C, Yang, S-P, Schultz, B R, Wallis, J W, Spieth, J, Bieri, T A, Nelson, J O, Berkowicz, N, Wohldmann, P E, Cook, L L, Hickenbotham, M T, Eldred, J, Williams, D, Bedell, J A, Mardis, E R, Clifton, S W, Chissoe, S L, Marra, M A, Raymond, C, Haugen, E, Gillett, W, Zhou, Y, James, R, Phelps, K, Iadanoto, S, Bubb, K, Simms, E, Levy, R, Clendenning, J, Kaul, R, Kent, W J, Furey, T S, Baertsch, R A, Brent, M R, Keibler, E, Flicek, P, Bork, P, Suyama, M, Bailey, J A, Portnoy, M E, Torrents, D, Chinwalla, A T, Gish, W R, Eddy, S R, McPherson, J D, Olson, M V, Eichler, E E, Green, E D, Waterston, R H, Wilson, R K

Houston, F. Prion diseases: BSE in sheep bred for resistance to infection (*with* Goldmann, W, Chong, A, Jeffrey, M, Gonzalez, L, Foster, J, Parnham, D, Hunter, N), *Brief communication*, **423**, 498
Hove, J R. Intracardiac fluid forces are an essential epigenetic factor for embryonic cardiogenesis (*with* Koster, R W, Forouhar, A S, Acevedo-Bolton, G, Fraser, S E, Gharib, M), *Letter to Nature*, **421**, 172
Hovius, N. *See under* Dadson, S J, **426**, 648
Howard, J. Cell Biology (*by* Pollard, T, Earnshaw, T), *Book review*, **421**, 115
Dynamics and mechanics of the microtubule plus end (*with* Hyman, A A), *Insight review article*, **422**, 753
See under Wolfe, J T, **424**, 209
Howarth, S. *See under* Wood, V, **421**, 94
Howden, P J. *See under* Mungall, A J, **425**, 805
Howe, C J. *See under* Molina-Heredia, F P, **424**, 33
Howe, K L. *See under* Mungall, A J, **425**, 805
Howell, F C. *See under* White, T D, **423**, 742
Howell, G R. *See under* Mungall, A J, **425**, 805
Howell, S. *See under* Xiao, B, **421**, 652
Howie, F E. *See under* Jepson, P D, **425**, 575
Howitz, K T. Small molecule activators of sirtuins extend *Saccharomyces cerevisiae* lifespan (*with* Bitterman, K J, Cohen, H Y, Lamming, D W, Lavu, S, Wood, J G, Zipkin, R E, Chung, P, Kisielewski, A, Zhang, L-L, Scherer, B, Sinclair, D A), *Letter to Nature*, **425**, 191
Howk, J C. *See under* Prochaska, J X, **423**, 57
Howlett, S. *See under* Ueda, H, **423**, 506
Howson, J M M. *See under* Ueda, H, **423**, 506
Howson, R W. *See under* Huh, W-K, **425**, 686
See under Ghaemmaghami, S, **425**, 737
Hoyle, C D. The weight of expectation, *News and views*, **421**, 899
Hoyte, E G. *See under* McIntire, J J, **425**, 576
Hristov, T S. Dynamical coupling of wind and ocean waves through wave-induced air flow (*with* Miller, S D, Friehe, C A), *Letter to Nature*, **422**, 55
Hsiao, W S. *See under* Su, H T, **423**, 974
Hsieh, M-L. *See under* Dadson, S J, **426**, 648
Hsieh, Y-H. Politics hindering SARS work, *Correspondence*, **423**, 381
Hsu, M F. *See under* Nikolaides, M G, **424**, 1014
Hsu, R R. *See under* Su, H T, **423**, 974
Hu, D L. The hydrodynamics of water strider locomotion (*with* Chan, B, Bush, J W M), *Letter to Nature*, **424**, 663
Hu, J-C. *See under* Dadson, S J, **426**, 648
Huang, C. JNK phosphorylates paxillin and regulates cell migration (*with* Rajfur, Z, Borchers, C, Schaller, M D, Jacobson, K), *Letter to Nature*, **424**, 219
Huang, C Y. Direct measurement of the transfer rate of chloroplast DNA into the nucleus (*with* Ayliffe, M A, Timmis, J N), *Letter to Nature*, **422**, 72
Huang, E-S. *See under* Wang, X, **424**, 456
Huang, F. *See under* Zhang, H, **424**, 1025
Huang, H. *See under* Ming, X, **421**, 496
See under Zhang, J, **425**, 836
Huang, H-K. *See under* Liou, Y-C, **424**, 556
Huang, H-L. *See under* Ren, S-X, **422**, 888
Huang, L. *See under* Rao, S G, **425**, 36
Huang, M C. *See under* Thomas, J W, **424**, 788
Huang, X. *See under* Morris, D G, **422**, 169
Huang, Y. *See under* Duan, X, **421**, 241
Hydrogen bonding: Single enantiomers from a chiral-alcohol catalyst (*with* Unni, A K, Thadani, A N, Rawal, V H), *Brief communication*, **424**, 146
Huang, Y-Q. *See under* Nong, Y, **422**, 302
Huangfu, D. Hedgehog signalling in the mouse requires intraflagellar transport proteins (*with* Liu, A, Rakeman, A S, Murcia, N S, Miswander, L, Anderson, K V), *Letter to Nature*, **426**, 83
Hubbard, T. *See under* Mungall, A J, **425**, 805
Hubbard, W. Planetary science: Pluto's atmospheric surprise, *News and views*, **424**, 137
Hubbell, S P. *See under* Volkov, I, **424**, 1035
Huber, B A. *See under* Duft, D, **421**, 128
Huber, M C E. *See under* Bleeker, J A, **421**, 316
Huber, R. *See under* Friedrich, R, **425**, 535
Huckle, E. *See under* Mungall, A J, **425**, 805
Huckle, E J. *See under* Wood, V, **421**, 94
Hudson, P J. *See under* Mougeot, F, **421**, 737
Hueso, R. *See under* Sánchez-Lavega, A, **423**, 623
Hughes, D H. *See under* Stevens, J A, **425**, 264
Hughes, P. Bright students enjoy correcting the textbooks, *Correspondence*, **421**, 210
Hughes, S C. *See under* Speck, O, **421**, 83
Huh, W-K. Global analysis of protein localization in budding yeast (*with* Falvo, J V, Gerke, L C, Carroll, A S, Howson, R W, Weissman, J S, O'Shea, E K), *Article*, **425**, 686
See under Ghaemmaghami, S, **425**, 737
Hui, H. *See under* Wei, X, **422**, 307, **423**, 197
Huijbregts, B. *See under* Walsh, P D, **422**, 611
Huleihil, M. *See under* Gordon, J M, **424**, 510
Hull, D. The Hedgehog, the Fox, and the Magister's Pox: Mending the Gap Between Science and the Humanities (*by* Gould, S J), *Book review*, **422**, 810
Hulme, J. *See under* Ueda, H, **423**, 506
Humeau, Y. Presynaptic induction of heterosynaptic associative plasticity in the mammalian brain (*with* Shaban, H, Bissiere, S, Luthi, A), *Letter to Nature*, **426**, 841
Humler, E. *See under* Meyzen, C M, **421**, 731
Humphray, S J. *See under* Mungall, A J, **425**, 805
Humphries, M D. *See under* Mungall, A J, **425**, 805
Huneycutt, A J. *See under* McCall, B J, **422**, 500
Hung, W. *See under* Nelson, C, **421**, 187
Hunt, A R. *See under* Mungall, A J, **425**, 805
Hunt, C. *See under* Wood, V, **421**, 94
Hunt, S. *See under* Wood, V, **421**, 94
See under Langmore, N E, **422**, 157
Hunt, S E. *See under* Mungall, A J, **425**, 805
Hunten, D M. Planetary science: Sodium at Io, *News and views*, **421**, 30
Hunter, K M D. *See under* Ueda, H, **423**, 506
Hunter, M. *See under* Bennett, J, **423**, 384
Hunter, N. *See under* Houston, F, **423**, 498
Hunter, T. *See under* Liou, Y-C, **424**, 556
Huong, S-M. *See under* Wang, X, **424**, 456
Hurlstone, A F L. The Wnt/β-catenin pathway regulates cardiac valve formation (*with* Haramis, A-P G, Wienholds, E, Begthel, H, Korving, J, van Eeden, F, Cuppen, E, Zivkovic, D, Plasterk, R H A, Clevers, H), *Letter to Nature*, **425**, 633
Hurst, L D. *See under* Pal, C, **421**, 496
See under Papp, B, **424**, 194
Hurst, S M. *See under* Wood, V, **421**, 94
Hurtgen, M T. Biogeochemistry: Ancient oceans and oxygen, *News and views*, **423**, 592
Hussain, Z. *See under* Zhou, X J, **423**, 398
Hussey, N E. A coherent three-dimensional Fermi surface in a high-transition-temperature superconductor (*with* Abdel-Jawad, M, Carrington, A, MacKenzie, A P, Balicas, L), *Letter to Nature*, **425**, 814
Hutchinson, J R. Are fast-moving elephants really running? (*with* Famini, D, Lair, R, Kram, R), *Brief communication*, **422**, 493
Biomechanics: Early birds surmount steep slopes, *News and views*, **426**, 777
Hutnak, M. *See under* Fisher, A T, **421**, 618
Huttner, K M. *See under* Salzman, N H, **422**, 522
Hutton, B M. *See under* Ryan, M P, **424**, 390
Hutton, J. In retrospect: An Investigation of the Principles of Knowledge and of the Progress of Reason, from Sense to Science and Philosophy, *Book review by* Pearson, P, **425**, 665
Huxman, T E. *See under* Enquist, B J, **423**, 639
Huxtable, R J. The Oxford Companion to the History of Modern Science (*by* Heilbron, J L), *Book review*, **424**, 17
Huxter, J. Independent rate and temporal coding in hippocampal pyramidal cells (*with* Burgess, N, O'Keefe, J), *Letter to Nature*, **425**, 828
Huynen, L. Nuclear DNA sequences detect species limits in ancient moa (*with* Millar, C D, Scofield, R P, Lambert, D M), *Letter to Nature*, **425**, 175
Huynh, D. Inheritance of a pre-inactivated paternal X chromosome in early mouse embryos (*with* Lee, J T), *Letter to Nature*, **426**, 857
Hwang, H-Y. *Caenorhabditis elegans* early embryogenesis and vulval morphogenesis depend on chondroitin biosynthesis (*with* Olson, S K, Esko, J D, Horvitz, H R), *Letter to Nature*, **423**, 439
Hwang, J. *See under* Inoue, M, **422**, 629
Hwang, K Y. *See under* Sung, B-J, **425**, 98
Hwang, S W. *See under* Viswanath, V, **423**, 822
Hyman, A A. *See under* Howard, J, **422**, 753
Hyndman, R D. *See under* Nedimovic, M R, **424**, 416
Hytch, M J. Measurement of the displacement field of dislocations to 0.03 Å by electron microscopy (*with* Putaux, J-L, Penisson, J-M), *Letter to Nature*, **423**, 270
Hyun, Y-L. *See under* Sung, B-J, **425**, 98

Iadanoto, S. *See under* Hillier, L W, **424**, 157
Ian, D. *See under* Park, I-K, **423**, 302
Ianakiev, P. *See under* Galagan, J E, **422**, 859
Ichikawa, S-I. *See under* Inada, N, **426**, 810
Idiata Mambounga, D. *See under* Walsh, P D, **422**, 611
Idol, J R. *See under* Thomas, J W, **424**, 788
Iess, L. *See under* Bertotti, B, **425**, 374
Ignace, D D. *See under* Enquist, B J, **423**, 639
Ihle, D. Natural-born Cyborgs: Minds, Technologies, and the Future of Human Intelligence (*by* Clarke, A), *Book review*, **424**, 615
Iigo, M. *See under* Yoshimura, T, **426**, 178
Ikeda, T. *See under* Yu, Y, **425**, 145
Ilan, M. *See under* Sundar, V C, **424**, 899
Imai, K. *See under* Takaoka, A, **424**, 516
Imaizumi, T. *See under* Kawai, H, **421**, 287
FKF1 is essential for photoperiodic-specific light signalling in *Arabidopsis* (*with* Tran, H G, Swartz, T E, Briggs, W R, Kay, S A), *Letter to Nature*, **426**, 302
Imoto, N. *See under* Yamamoto, T, **421**, 343
Inada, N. A gravitationally lensed quasar with quadruple images separated by 14.62 arcseconds (*with* Oguri, M, Pindor, B, Hennawi, J F, Chiu, K, Zheng, W, Ichikawa, S-I, Gregg, M D, Becker, R H, Suto, Y, Strauss, M A, Turner, E L, Keeton, C R, Annis, J, Castander, F J, Eisenstein, D J, Frieman, J A, Fukugita, M, Gunn, J E, Johnston, D E, Kent, S M, Nichol, R C, Richards, G T, Rix, H-W, Sheldon, E S, Bahcall, N A, Brinkmann, J, Ivezic, Z, Lamb, D Q, McKay, T A, Schneider, D P, York, D G), *Letter to Nature*, **426**, 810
Ing, I N. *See under* Garg, V, **424**, 443
Inglis, J. Inspiring Science: Jim Watson and the Age of DNA (*with* Sambrook, J, Witkowski, J), *Book review by* Olby, R, **426**, 229
Inoue, H. *See under* Nakazaki, T, **421**, 170
See under Tibi, R, **424**, 921
Inoue, K. *See under* Tsuda, M, **424**, 778
Inoue, M. The exocyst complex is required for targeting of Glut4 to the plasma membrane by insulin (*with* Chang, L, Hwang, J, Chiang, S-H, Saltiel, A R), *Letter to Nature*, **422**, 629
Inoue, T. *See under* Irifune, T, **421**, 599
Insall, R. Impact factors: target the funding bodies, *Correspondence*, **423**, 585
Ionescu-Tîrgovişte, C. *See under* Ueda, H, **423**, 506
Ippolito, F. The subtle beauty of art in the service of science, *Correspondence*, **422**, 15
Irifune, T. Materials: Ultrahard polycrystalline diamond from graphite (*with* Kurio, A, Sakamoto, S, Inoue, T, Sumiya, H), *Brief communication*, **421**, 599
Irwin, A J. *See under* Quigg, A, **425**, 291
Isak, A. *See under* Hillier, L W, **424**, 157
Isebrands, J G. *See under* Percy, K E, **421**, 190
Isham, E A. *See under* Ekstrom, A D, **425**, 184
Ishida, S. A stable silicon-based allene analogue with a formal *sp*-hybridized silicon atom (*with* Iwamoto, T, Kira, M), *Letter to Nature*, **421**, 725
Ishida, Y. *See under* Ishii, D, **423**, 628
Ishii, D. Chaperonin-mediated stabilization and ATP-triggered release of semiconductor nanoparticles (*with* Kinbara, K, Ishida, Y, Ishii, N, Okochi, M, Yohda, M, Aida, T), *Letter to Nature*, **423**, 628
Ishii, H. Direct observation of Tomonaga-Luttinger-liquid state in carbon nanotubes at low temperatures (*with* Kataura, H, Shiozawa, H, Yoshioka, H, Otsubo, H, Takayama, Y, Miyahara, T, Suzuki, S, Achiba, Y, Nakatake, M, Narimura, T, Higashiguchi, M, Shimada, K, Namatame, H, Taniguchi, M), *Letter to Nature*, **426**, 540
Ishii, N. *See under* Ishii, D, **423**, 628
Ishikawa, M. *See under* Seo, H S, **423**, 995
Ishioka, R. *See under* Uemura, M, **423**, 843
Ishizaka, K. *See under* Kimura, T, **426**, 55
Israël, A. Signal transduction: A regulator branches out, *News and views*, **423**, 596
Israel, A. *See under* Kovalenko, A, **424**, 801
Itano, W M. *See under* Leibfried, D, **422**, 412
Ito, Y. *See under* Yamauchi, T, **423**, 762
Itoh, S. Cotemporaneous formation of chondrules and refractory inclusions in the early Solar System (*with* Yurimoto, H), *Letter to Nature*, **423**, 728
Itoh, Y. Free fatty acids regulate insulin secretion from pancreatic β cells through GRP40 (*with* Kawamata, Y, Harada, M, Kobayashi, M, Fujii, R, Fukusumi, S, Ogi, K, Hosoya, M, Tanaka, Y, Uejima, H, Tanaka, H, Maruyama, M, Satoh, R, Okubo, S, Kizawa, H, Komatsu, H, Matsumura, F, Noguchi, Y, Shinohara, T, Hinuma, S, Fujisawa, Y, Fujino, M), *Letter to Nature*, **422**, 173
Ivanov, M Y. *See under* Niikura, H, **421**, 826
Ivanov, P Ch. *See under* Carpena, P, **421**, 764
Ivanov, V B. *See under* Dubrovsky, J G, **426**, 759
Ivanova, N. Genome sequence of *Bacillus cereus* and comparative analysis with *Bacillus anthracis* (*with* Sorokin, A, Anderson, I, Galleron, N, Candelon, B, Kapatral, V, Bhattacharyya, A, Reznik, G, Mikhallova, N, Lapidus, A, Chu, L, Mazur, M, Goltsman, E, Larsen, N, D'Souza, M, Walunas, T, Grechkin, Y, Pusch, G, Haselkorn, R, Fonstein, M, Ehrlich, S D, Overbeek, R, Kyrpides, N), *Letter to Nature*, **423**, 87
Iversen, L. Better than Prozac: Creating the New Generation of Psychiatric Drugs (*by* Barondes, S), *Book review*, **424**, 617
Ives, A R. *See under* Kilpatrick, A M, **422**, 65
Ivezic, Z. *See under* Inada, N, **426**, 810
Ivison, R. *See under* Dunne, L, **424**, 285
Ivison, R J. *See under* Chapman, S C, **422**, 695
See under Stevens, J A, **425**, 264
Iwamoto, T. *See under* Ishida, S, **421**, 725
Iwatsubo, T. *See under* Takasugi, N, **422**, 438
Iwema, T. *See under* Billas, I M L, **426**, 91
Izaurralde, E. *See under* Lingel, A, **426**, 465
Izumi, F. *See under* Takada, K, **422**, 53

Jabbar, A. *See under* Agrawal, A, **424**, 329
Jaber, J R. *See under* Jepson, P D, **425**, 575
Jackman, T R. *See under* Losos, J B, **424**, 542
Jacks, T. *See under* Sage, J, **424**, 223
Jackson, A. Intense equatorial flux spots on the surface of the Earth's core, *Letter to Nature*, **424**, 760
Jackson, M B. *See under* Wang, C-T, **424**, 943
Jackson, S P. *See under* Goldberg, M, **421**, 952
See under Downs, J A, **424**, 732
See under d'Adda di Fagagna, F, **426**, 194
Jackson, W. *See under* Moller, S, **426**, 166
Jacob, D E. *See under* Foley, S F, **421**, 249
Jacobs, B. *See under* Kappelman, J, **426**, 549
Jacobs, D C. Chemistry: Tips for moving single molecules, *News and views*, **423**, 488
Jacobs, D S. *See under* Miller-Butterworth, C M, **424**, 187
Jacobsen, C. *See under* Wang, Y, **424**, 50
Jacobsen, S B. Geochemistry: Lost terrains of early Earth, *News and views*, **421**, 901
Jacobson, K. *See under* Huang, C, **424**, 219
Jacobson, T. A strong astrophysical constraint on the violation of special relativity by quantum gravity (*with* Liberati, S, Mattingly, D), *Letter to Nature*, **424**, 1019
Jacque, J-M. *See under* Swingler, S, **424**, 213
Jacquet, A. *See under* Vanhamme, L, **422**, 83
Jacquet, S. *See under* Martinez, L O, **421**, 75
Jaeger, J-J. *See under* Chaimanee, Y, **422**, 61
Mammalian evolution: Isolationist tendencies, *News and views*, **426**, 509
Jaeger, S. *See under* Hillier, L W, **424**, 157
Jaffe, D. *See under* Galagan, J E, **422**, 859

Jagels, K. *See under* Wood, V, **421**, 94
Jahn, W. *See under* Holmes, K C, **425**, 423
Jahrling, P B. *See under* Sullivan, N J, **424**, 681
Jaillon, O. *See under* Heilig, R, **421**, 601
Jakab, P L. *See under* Crouch, T, **426**, 765
Jakobsen, K S. *See under* Rueness, E K, **425**, 69
Jakobsson, P. *See under* Hjorth, J, **423**, 847
Jakobsson, S. *See under* Pizzari, T, **426**, 70
James, K. *See under* Wood, V, **421**, 94
James, R. *See under* Heilig, R, **421**, 601
  See under Hillier, L W, **424**, 157
Jamora, C. Links between signal transduction, transcription and adhesion in epithelial bud development (*with* DasGupta, R, Kocieniewski, P, Fuchs, E), *Letter to Nature*, **422**, 317
  Erratum: Links between signal transduction, transcription and adhesion in epithelial bud development (*with* DasGupta, R, Kocieniewski, P, Fuchs, E), *Letter to Nature*, **424**, 974
Jan, Y-N. *See under* Rothenberg, M E, **425**, 469
Janata, P. The Cognitive Neuroscience of Music (*by* Peretz, I, Zatorre, R), *Book review*, **426**, 386
Jansen, J H F. *See under* Schefuß, E, **422**, 418
Janssen, E. *See under* Hoebe, K, **424**, 743
Janssen, E M. $CD4^+$ T cells are required for secondary expansion and memory in $CD8^+$ T lymphocytes (*with* Lemmens, E E, Wolfe, T, Christen, U, von Herrath, M G, Schoenberger, S P), *Letter to Nature*, **421**, 852
Jansson, S. *See under* Ruban, A V, **421**, 648
Janvier, P. *See under* Shu, D-G, **421**, 526
  The Cruise of the Betsy with Rambles of a Geologist (*by* Miller, H, Smout, T C, Taylor, M A), *Book review*, **426**, 19
Jardine, L. *See under* Bennett, J, **423**, 384
Jarvis, M. Chemistry: Cellulose stacks up, *News and views*, **426**, 611
Jas, G S. *See under* Mayor, U, **421**, 863
Jasmin, L. Analgesia and hyperalgesia from GABA-mediated modulation of the cerebral cortex (*with* Rabkin, S D, Granato, A, Boudah, A, Ohara, P T), *Letter to Nature*, **424**, 316
Javey, A. Ballistic carbon nanotube field-effect transistors (*with* Guo, J, Wang, Q, Lundstrom, M, Dai, H), *Letter to Nature*, **424**, 654
Javot, H. *See under* Tournaire-Roux, C, **425**, 393
Jayaraman, K S. India prime minister pledges to revamp science, *News*, **421**, 101
  India debates results of its first transgenic cotton crop, *News*, **421**, 681
  India budgets for boost in research, *News*, **422**, 6
  India pledges deluge of funds to water plan, *News*, **422**, 790
  MIT pulls out of Asian Media Lab in argument over rule, *News*, **423**, 213
  Monsson rains start to ease India's drought, *News*, **423**, 673
  India plans to bring neutrino science home, *News*, **423**, 909
  Anger grows over plan to uproot Indian crop institute, *News*, **424**, 477
  India launches plan for mission to map the moon, *News*, **424**, 985
Jaynes, J B. *See under* Sedkov, Y, **426**, 78
Jedd, G. *See under* Galagan, J E, **422**, 859
Jefferson, M. *See under* Hall, C, **426**, 318
Jefferson, T. Journals: how to decide what's worth publishing (*with* Shashok, K), *Correspondence*, **421**, 209
Jeffrey, M. *See under* Houston, F, **423**, 498
Jegla, T. *See under* Viswanath, V, **423**, 822
Jehin, E. *See under* Greiner, J, **426**, 157
Jelenkovic, B. *See under* Leibfried, D, **422**, 412
Jellinek, A M. *See under* Stegman, D R, **421**, 143
Jenkins, A. *See under* Kash, T L, **421**, 272
Jenkins, N A. *See under* Montcouquiol, M, **423**, 173
Jennewein, T. *See under* Pan, J-W, **421**, 721
Jennings, M D. Oil and war: we had the warning 30 years ago, *Correspondence*, **423**, 15
Jeon, M. *See under* Chan, R C, **423**, 1002
Jeon, Y H. *See under* Sung, B-J, **425**, 98
Jepson, P D. Gas-bubble lesions in stranded cetaceans (*with* Arbelo, M, Deaville, R, Patterson, I A P, Castro, P, Baker, J R, Degollada, E, Ross, H M, Herraez, P, Pocknell, A M, Rodriguez, F, Howie, F E, Espinosa, A, Reid, R J, Jaber, J R, Martin, V, Cunningham, A A, Fernandez, A), *Brief communication*, **425**, 575
Jerome, R. *See under* Raviv, U, **425**, 163
Jessberger, E K. *See under* Trieloff, M, **422**, 502
Jessop, H. *See under* Lee, K, **424**, 389
Jetten, M S M. *See under* Kuypers, M M M, **422**, 608
Jeusset, J. *See under* Veaute, X, **423**, 309
Jewitt, D C. *See under* Sheppard, S S, **423**, 261
Jha, S. *See under* Konacki, M, **421**, 507
Jhoti, H. *See under* van Montfort, R L M, **423**, 773
  See under Williams, P A, **424**, 464
Ji, W. *See under* Jones, J M, **425**, 721
Ji, Y. An electronic Mach–Zehnder interferometer (*with* Chung, Y, Sprinzak, D, Heiblum, M, Mahalu, D, Shtrikman, H), *Letter to Nature*, **422**, 415
Ji, Z. *See under* Lu, W, **423**, 422
Jia, J. *See under* Ren, S-X, **422**, 888
Jiang, G. Two-piconewton slip bond between fibronectin and the cytoskeleton depends on talin (*with* Glannone, G, Critchley, D R, Fukumoto, E, Sheetz, M P), *Letter to Nature*, **424**, 334
  Stable isotopic evidence for methane seeps in Neoproterozoic postglacial cap carbonates (*with* Kennedy, M J, Christie-Blick, N), *Letter to Nature*, **426**, 822
Jiang, H. Opposing basal ganglia processes shape midbrain visuomotor activity bilaterally (*with* Stein, B E, McHaffie, J G), *Letter to Nature*, **423**, 982
Jiang, H-Q. *See under* Ren, S-X, **422**, 888
Jiang, J-X. *See under* Ren, S-X, **422**, 888
Jiang, L. *See under* Liu, Y, **423**, 49
  See under Read, T D, **423**, 81
Jiang, N. An active DNA transposon family in rice (*with* Bao, Z, Zhang, X, Hirochika, H, Eddy, S R, McCouch, S R, Wessler, S R), *Letter to Nature*, **421**, 163
Jiang, X. *See under* Mojon-Azzi, S M, **421**, 209
Jiang, X-G. *See under* Ren, S-X, **422**, 888
Jiang, Y. *See under* Ruta, V, **422**, 180
  X-ray structure of a voltage-dependent K^+ channel (*with* Lee, A, Chen, J, Ruta, V, Cadene, M, Chait, B T, MacKinnon, R), *Article*, **423**, 33
  The principle of gating charge movement in a voltage-dependent K^+ channel (*with* Ruta, V, Chen, J, Lee, A, MacKinnon, R), *Article*, **423**, 42
Jiggins, C. *See under* Sweeney, A, **423**, 31
Jimenez, J. *See under* Wood, V, **421**, 94
Jin, D S. *See under* Regal, C A, **424**, 47
  See under Greiner, M, **426**, 537
Jin, H-J. Mechanism of silk processing in insects and spiders (*with* Kaplan, D L), *Letter to Nature*, **424**, 1057
Jin, R. Controlling anisotropic nanoparticle growth through plasmon excitation (*with* Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A), *Letter to Nature*, **425**, 487
Jin, Y J. *See under* Yin, Y, **422**, 527
Jing, C. *See under* Xiao, B, **421**, 652
Jónsson, S. Post-earthquake ground movements correlated to pore-pressure transients (*with* Segall, P, Pedersen, R, Björnsson, G), *Letter to Nature*, **424**, 179
Joachimiak, A. *See under* Li, D, **425**, 102
Jochimiak, A. *See under* Li, D, **423**, 512
Johansson, B. *See under* Dubrovinsky, L, **422**, 58
  See under Belonoshko, A B, **424**, 1032
Johansson, L C. Delta-wing function of webbed feet gives hydrodynamic lift for swimming propulsion in birds (*with* Norberg, R A), *Letter to Nature*, **424**, 65
Johansson, R S. *See under* Flanagan, J R, **424**, 769
Johnsen, A. *See under* Foerster, K, **425**, 714
Johnsen, R C. *See under* Ansley, S J, **425**, 628
Johnsen, S. *See under* Watanabe, O, **422**, 509
  See under Sweeney, A, **423**, 31
Johnson, A. Obituary: Ira Herskowitz (1946–2003), (*with* Ptashne, M), *News and views*, **424**, 384
Johnson, C E. *See under* Blum, J D, **423**, 824
Johnson, C M. *See under* Mayor, U, **421**, 863
  See under Mungall, A J, **425**, 805
Johnson, D. Reply: Nitrogen storage: UV-B radiation and soil microbial communities (*with* Campbell, C D, Lee, J A, Callaghan, T V, Gwynn-Jones, D), *Brief communication*, **423**, 138
  See under Hillier, L W, **424**, 157
Johnson, D D P. Sociology: The puzzle of human cooperation (*with* Stopka, P, Knights, S), *Brief communication*, **421**, 911
Johnson, J-L F. *See under* Pintard, L, **425**, 311
Johnson, P J. *See under* Aebischer, N J, **423**, 400
Johnson, R L. *See under* Kile, B T, **425**, 81
Johnson, T. *See under* Zhang, J, **425**, 836
Johnson, Z I. *See under* Rocap, G, **424**, 1042
Johnston, A. *See under* Arnold, D H, **425**, 181
Johnston, D E. *See under* Inada, N, **426**, 810
Johnston, H. *See under* Bowler, J M, **421**, 837
Johnston, M. *See under* Langkjaer, R B, **421**, 848
Johnston, M N. *See under* Altfeld, M, **423**, 461
Johnston, R J. A microRNA controlling left/right neuronal asymmetry in *Caenorhabditis elegans* (*with* Hobert, O), *Letter to Nature*, **426**, 845
Johnstone, R A. *See under* Hager, R, **421**, 533
  See under Rands, S A, **423**, 432
Jokat, W. *See under* Michael, P J, **423**, 956
  Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge (*with* Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J), *Letter to Nature*, **423**, 962
Jolly, D. *See under* Chaimanee, Y, **422**, 61
Jones, C E. *See under* Ludwig, M-G, **425**, 93
Jones, C G. *See under* Gregg, J W, **424**, 183
Jones, D. Novel and conventional paths to a better banana, *Correspondence*, **421**, 889
Jones, D M. *See under* Head, I M, **426**, 344
Jones, E G. Cécile and Oskar Vogt: The Visionaries of Modern Neuroscience (*by* Klatzo, I, Zu Rhei, G), *Book review*, **421**, 19
Jones, I. *See under* Sucena, E, **424**, 935
Jones, J. Quantum computing: Putting it into practice, *News and views*, **421**, 28
Jones, J B. *See under* Drinkwater, M J, **423**, 519
Jones, J D G. *See under* Foreman, J, **422**, 442
Jones, J H. Social networks: Sexual contacts and epidemic thresholds (*with* Handcock, M S), *Brief communication*, **423**, 605
Jones, J M. Loss of Omi mitochondrial protease activity causes the neuromuscular disorder of *mnd2* mutant mice (*with* Datta, P, Srinivasula, S M, Ji, W, Gupta, S, Zhang, Z J, Davies, E, Hajnoczky, G, Saunders, T L, Van Keuren, M L, Fernandes-Alnemri, T, Meisler, M H, Alnemri, E S), *Letter to Nature*, **425**, 721
Jones, L. *See under* Wood, V, **421**, 94
Jones, L E. *See under* Yoshida, T, **424**, 303
Jones, M. *See under* Wood, V, **421**, 94
  See under Pinnaduwage, L A, **425**, 474
Jones, M C. *See under* Mungall, A J, **425**, 805
Jones, N. Earth science: How do your mountains grow?, *News and views*, **425**, 781
Jones, R S. *See under* Sedkov, Y, **426**, 78
Jones, S. *See under* Schulz, M, **422**, 48
  Y: The Descent of Men, *Book review by* Marshall Graves, J A, **423**, 223
Jones, T M. *See under* Arnqvist, G, **424**, 387
Joo, K. *See under* Garg, V, **424**, 443
Jope, R S. Should tobacco ban rule out governments too?, *Correspondence*, **422**, 802
Jordan-Sweet, J. *See under* Detavernier, C, **426**, 641
Jorgensen, B B. *See under* Kuypers, M M M, **422**, 608
  See under Witte, U, **424**, 763
Jorgensen, J T. *See under* Coltman, D W, **426**, 655
Joron, M. Captivity masks inbreeding effects on male mating success in butterflies (*with* Brakefield, P M), *Letter to Nature*, **424**, 191
Joshi, B C. *See under* Burgay, M, **426**, 531
Jouzel, J. *See under* Genty, D, **421**, 833
  See under Watanabe, O, **422**, 509
Jox, R. Red tape frustrates Europe's fund-seekers, *News*, **424**, 605
Joy, A A. *See under* Mungall, A J, **425**, 805
Joyce, B. *See under* Cua, D J, **421**, 744
Ju, W. *See under* Nong, Y, **422**, 302
Julian, S R. *See under* Doiron-Leyraud, N, **425**, 595
Julich, D. *See under* Knaut, H, **421**, 279
Julienne, P S. Condensed-matter physics: Really cool molecules, *News and views*, **424**, 24
Jumaa, H. Deficiency of the adaptor SLP-65 in pre-B-cell acute lymphoblastic leukaemia (*with* Bossaller, L, Portugal, K, Storch, B, Lotz, M, Flemming, A, Schrappe, M, Postila, V, Riikonen, P, Pelkonen, J, Niemeyer, C M, Reth, M), *Letter to Nature*, **423**, 452
Junker, U. *See under* Ludwig, M-G, **425**, 93
Junquera, J. Critical thickness for ferroelectricity in perovskite ultrathin films (*with* Ghosez, P), *Letter to Nature*, **422**, 506
Juo, Z S. Crystal structure of a transcription factor IIIB core interface ternary complex (*with* Kassavetis, G A, Wang, J, Geiduschek, E P, Sigler, P B), *Letter to Nature*, **422**, 534
Jürgens, G. *See under* Friml, J, **426**, 147
Jurkojc, P. *See under* Hamm, C E, **421**, 841
Justice, M J. *See under* Kile, B T, **425**, 81
Juusola, M. *See under* Niven, J E, **421**, 630

Kaas, A A. *See under* Greiner, J, **426**, 157
Kadanoff, L P. Materials science: Bursting apart, *News and views*, **421**, 124
Kadenhoff, R. *See under* Uehlein, N, **425**, 734
Kadota, A. *See under* Kawai, H, **421**, 287
Kadowaki, K. *See under* Souma, S, **423**, 65
Kadowaki, T. *See under* Yamauchi, T, **423**, 762
Kaern, M. *See under* Blake, W J, **422**, 633
Kafitz, K W. *See under* Rose, C R, **426**, 74
Kahana, M J. *See under* Ekstrom, A D, **425**, 184
Kahn, R. *See under* Pebay-Peyroula, E, **426**, 39
Kahnt, J. *See under* Kruger, M, **426**, 878
Kaindl, R A. Ultrafast terahertz probes of transient conducting and insulating phases in an electron-hole gas (*with* Carnahan, M A, Hagele, D, Lövenich, R, Chamla, D S), *Letter to Nature*, **423**, 734
Kaiser, P. *See under* Morris, M C, **423**, 1009
Kakashita, T. *See under* Zhou, X J, **423**, 398
Kalck, V. *See under* Kovalchuk, I, **423**, 760
Kalhori, S. *See under* McCall, B J, **422**, 500
Kalia, L V. *See under* Nong, Y, **422**, 302
Kalicki, J. *See under* Hillier, L W, **424**, 157
Kalinikos, B A. *See under* Demokritov, S O, **426**, 159
Kalnay, E. Impact of urbanization and land use change on climate (*with* Cai, M), *Letter to Nature*, **423**, 528
  Corrigendum: Impact of urbanization and land-use change on climate (*with* Cai, M), *Letter to Nature*, **425**, 102
Kalogera, V. *See under* Burgay, M, **426**, 531
Kamal, A. A high-affinity conformation of Hsp90 confers tumour selectivity on Hsp90 inhibitors (*with* Thao, L, Sensintaffar, J, Zhang, L, Boehm, M F, Fritz, L C, Burrows, F J), *Letter to Nature*, **425**, 407
Kamal, M. *See under* Galagan, J E, **422**, 859
Kamath, R S. Systematic functional analysis of the *Caenorhabditis elegans* genome using RNAi (*with* Fraser, A G, Dong, Y, Poulin, G, Durbin, R, Gotta, M, Kanapin, A, Le Bot, N, Moreno, S, Sohrmann, M, Welchman, D P, Zipperien, P, Ahringer, J), *Article*, **421**, 231
  See under Ashrafi, K, **421**, 268
  See under Murphy, C T, **424**, 277
Kamb, A. Universities could gain from backing biotech, *Correspondence*, **422**, 113
Kamdem Toham, A. *See under* Walsh, P D, **422**, 611
Kamenetsky, V S. *See under* Sun, W, **422**, 294
Kaminski, A. *See under* Souma, S, **423**, 65
Kaminski, N. *See under* Morris, D G, **422**, 169
Kammier, M. *See under* Sokolowski-Tinten, K, **422**, 287
Kamon, J. *See under* Yamauchi, T, **423**, 762
Kampf, N. *See under* Raviv, U, **425**, 163
Kamvysselis, M. *See under* Galagan, J E, **422**, 859
Kanapin, A. *See under* Kamath, R S, **421**, 231
Kanatzidis, M G. *See under* Salvador, J R, **425**, 702, **426**, 584
Kandachi, K. Tokyo deans plans flexible future for students, *News*, **421**, 304
  See under Cyranoski, D, **421**, 680
  Japan aims to let industry compete for grant money, *News*, **422**, 550
  Antarctic research frozen out of Japan's budget plans, *News*, **426**, 108

Kandel, R. Water from Heaven: The Story of Water from the Big Bang to the Rise of Civilization, and Beyond, *Book review by* Hillel, D, **423**, 587

Kane, J P. *See under* Vanhamme, L, **422**, 83

Kanegae, T. *See under* Kawai, H, **421**, 287

Kaneko, T. *See under* Madsen, E B, **425**, 637

Kaneko, Y. *See under* González, M M, **424**, 749

Kanemaki, M. Functional proteomic identification of DNA replication proteins by induced proteolysis *in vivo* (*with* Sanchez-Diaz, A, Gambus, A, Labib, K), *Article*, **423**, 720

Kang, H J. Antiferromagnetic order as the competing ground state in electron-doped $Nd_{1.85}Ce_{0.15}CuO_4$ (*with* Dai, P, Lynn, J W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y), *Letter to Nature*, **423**, 522

Reply: Condensed-matter physics: Spurious magnetism in high-Tc superconductor (*with* Dai, P, Lynn, W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y), *Brief communication*, **426**, 140

Kanoh, Y. *See under* Katou, Y, **424**, 1078

Kapatral, V. *See under* Ivanova, N, **423**, 87

Kaper, L. *See under* Hjorth, J, **423**, 847

Kaplan, D L. *See under* Jin, H-J, **424**, 1057

Kaplan, L A. *See under* Battin, T J, **426**, 439

Kapoor, T M. *See under* Canman, J C, **424**, 1074

Kappelman, J. Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia (*with* Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A), *Letter to Nature*, **426**, 549

Kappes, J C. *See under* Wei, X, **422**, 307, **423**, 197

Kappler, J. *See under* Liu, Y, **423**, 49

Kapteyn, H C. *See under* Paul, A, **421**, 51

Karanian, D A. *See under* Sutton, M A, **421**, 70

Karato, S-I. *See under* Bercovici, D, **425**, 39

The Dynamic Structure of the Deep Earth: An Interdisciplinary Approach, *Book review by* Williams, Q, **426**, 231

Karberg, N J. *See under* Loya, W M, **425**, 705

Karelsky, S. *See under* Gitlin, L, **423**, 197

Karhadkar, S S. *See under* Berman, D M, **425**, 846

Karl, D M. *See under* Dore, J E, **424**, 754

Global carbon cycle: Metabolic balance of the open sea (*with* Laws, E A, Morris, P, Williams, P J L, Emerson, S), *Brief communication*, **426**, 32

Karlins, E. *See under* Thomas, J W, **424**, 788

Karnosky, D F. *See under* Percy, K E, **421**, 190

Karnup, S V. *See under* Aungst, J L, **426**, 623

Karolchik, D. *See under* Thomas, J W, **424**, 788

Karsenty, G. The complexities of skeletal biology, *Insight overview*, **423**, 316

Karunakaran, R. *See under* Lodwig, E M, **422**, 722

Kasahara, T. Nutritional biochemistry: A new redox-cofactor vitamin for mammals (*with* Kato, T), *Brief communication*, **422**, 832

Kash, T L. Coupling of agonist binding to channel gating in the $GABA_A$ receptor (*with* Jenkins, A, Kelley, J C, Trudell, J R, Harrison, N L), *Letter to Nature*, **421**, 272

Kassavetis, G A. *See under* Juo, Z S, **422**, 534

Kastan, M B. *See under* Bakkenist, C J, **421**, 499

Kastelein, R A. *See under* Cua, D J, **421**, 744

Kasthuri, N. The role of neuronal identity in synaptic competition (*with* Lichtman, J W), *Letter to Nature*, **424**, 426

Kataoka, Y. *See under* Yamazaki, D, **424**, 452

Kataura, H. *See under* Ishii, H, **426**, 540

Kathiriya, I S. *See under* Garg, V, **424**, 443

Kato, S. *See under* Ohtake, F, **423**, 545

Kato, T. *See under* Fox, D W, **422**, 284

See under Kasahara, T, **422**, 832

See under Uemura, M, **423**, 843

Katoh, H. RhoG activates Rac1 by direct interaction with the Dock180-binding protein Elmo (*with* Negishi, M), *Letter to Nature*, **424**, 461

Katoh, S. *See under* Clark, J D, **423**, 747

See under Hart, W K, **426**, 622

Katou, Y. S-phase checkpoint proteins Tof1 and Mrc1 form a stable replication-pausing complex (*with* Kanoh, Y, Bando, M, Noguchi, H, Tanaka, H, Ashikari, T, Sugimoto, K, Shirahige, K), *Letter to Nature*, **424**, 1078

Katsanis, N. *See under* Ansley, S J, **425**, 628

Katsura, T. *See under* Yoshino, T, **422**, 154

Kattamuri, C. *See under* Rayapureddi, J P, **426**, 295

Kattenstroth, G. *See under* Missler, M, **423**, 939

Kaufer, A. *See under* Greiner, J, **426**, 157

Kauffman, E J. *See under* Tang, F, **422**, 87

Kaufman, A J. High CO_2 levels in the Proterozoic atmosphere estimated from analyses of individual microfossils (*with* Xiao, S), *Letter to Nature*, **425**, 279

Kaul, R. *See under* Hillier, L W, **424**, 157

Kaup, Y. *See under* Koller, J, **425**, 784

Kauranen, M. *See under* Niven, J E, **421**, 630

Kawabata, S-I. *See under* Friedrich, R, **425**, 535

Kawai, H. Responses of ferns to red light are mediated by an unconventional photoreceptor (*with* Kanegae, T, Christensen, S, Kiyosue, T, Sato, Y, Imaizumi, T, Kadota, A, Wada, M), *Letter to Nature*, **421**, 287

Kawal, S H. *See under* Lamarre, D, **426**, 186, **426**, 314

Kawamata, Y. *See under* Itoh, Y, **422**, 173

Kawane, K. *See under* Nishimoto, S, **424**, 1071

Kawano, M. *See under* Hanada, K, **426**, 803

Kawasaki, H. Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells (*with* Taira, K), *Article*, **423**, 838

Retraction: Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells (*with* Taira, K), *Letter to Nature*, **426**, 100

Kay, M. *See under* Mungall, A J, **425**, 805

Kay, M A. Looking into the safety of AAV vectors (*with* Nakai, H), *Correspondence*, **424**, 251

Kay, S A. *See under* Imaizumi, T, **426**, 302

See under MP, **426**, 567

Kazlas, P. *See under* Chen, Y, **423**, 136

Keane, J. Tools for modelling biological processes, *Correspondence*, **421**, 573

Keegstra, W. *See under* Ruban, A V, **421**, 648

Keel, W C. The Road to Galaxy Formation, *Book review by* Baugh, C, **421**, 791

Keeling, M J. Modelling vaccination strategies against foot-and-mouth disease (*with* Woolhouse, M E J, May, R M, Davies, G, Grenfell, B T), *Article*, **421**, 136

See under Ferguson, N M, **425**, 681

Keen, C L. *See under* Schroeter, H, **426**, 787

Keenan, J. The Face in the Mirror: The Search for the Origins of Consciousness (*with* Gallup Jr, G G, Falk, D), *Book review by* Hauser, M, **424**, 15

Keenan, S J. *See under* Mungall, A J, **425**, 805

Keeton, C R. *See under* Inada, N, **426**, 810

Kefalov, V. Role of visual pigment properties in rod and cone phototransduction (*with* Fu, Y, Marsh-Armstrong, N, Yau, K-W), *Letter to Nature*, **425**, 526

Keibler, E. *See under* Hillier, L W, **424**, 157

Keilman, N. Biodiversity: The threat of small households, *News and views*, **421**, 489

Kellar, S A. *See under* Zhou, X J, **423**, 398

Keller, L. *See under* Helms Cahan, S, **424**, 306

Niche Construction: The Neglected Process in Evolution (*by* Odling-Smee, F J, Laland, K N, Feldman, M W), *Book review*, **425**, 769

Keller, U. Recent developments in compact ultrafast lasers, *Insight review article*, **424**, 831

Kellermann, K I. Obituary: Groye Reber (1911–2002), *News and views*, **421**, 596

Kelley, J C. *See under* Kash, T L, **421**, 272

Kelley, M W. *See under* Montcouquiol, M, **423**, 173

Kelley, S P. *See under* Spicer, R A, **421**, 622

See under Brooker, R A, **423**, 738

A cytoplasmic region determines single-channel conductance in $5\text{-}HT_3$ receptors (*with* Dunlop, J I, Kirkness, E F, Lambert, J J, Peters, J A), *Letter to Nature*, **424**, 321

Kellis, M. Sequencing and comparison of yeast species to identify genes and regulatory elements (*with* Pattrson, N, Endrizzi, M, Birren, B, Lander, E S), *Article*, **423**, 241

Kellogg, E A. It's all relative, *News and views*, **422**, 383

Kelly, C. Reply: Plant ecology: Coexistence of tropical tree species (*with* Bowler, M G), *Brief communication*, **422**, 582

Kelly, G. *See under* Xiao, B, **421**, 652

Kelly, J W. *See under* Cohen, F E, **426**, 905

Kemp, A. *See under* Wallraff, A, **425**, 155

Kemp, M. A mechanical mind, *Science in culture*, **421**, 214

The *Mona Lisa* of modern science, *Feature*, **421**, 416

Leonardo lifts off, *Science in culture*, **421**, 792

Time will tell, *Science in culture*, **422**, 380

Nets and neuroses, *Science in culture*, **422**, 666

Deacon's nucleic acid, *Science in culture*, **423**, 483

Seeing sense, *Science in culture*, **424**, 18

Portrait: Updating Hooke, *Book review*, **424**, 255

Taking it on trust, *Science in culture*, **424**, 618

Pixels and piety, *Science in culture*, **425**, 128

The art of rigorous chance, *Science in culture*, **425**, 563

Luminet's illuminations, *Science in culture*, **426**, 232

Nasal bioluminescence in reindeer, *Rangifer tarandus rubens*, *Science in culture*, **426**, 768

Kempenaers, B. *See under* Blomqvist, D, **422**, 833

See under Foerster, K, **425**, 714

Kemper, C. Activation of human $CD4^+$ cells with CD3 and CD46 induces a T-regulatory cell 1 phenotype (*with* Chan, A C, Green, J M, Brett, K A, Murphy, K M, Atkinson, J P), *Letter to Nature*, **421**, 388

Kendall, J-M. *See under* Wookey, J, **422**, 136

Kenichi, T. Modulated structure of solid iodine during its molecular dissociation under high pressure (*with* Kyoko, S, Hiroshi, F, Mitsuko, O), *Letter to Nature*, **423**, 971

Kennedy, M J. *See under* Jiang, G, **426**, 822

Kennett, B L N. Earth science: Roots of the matter, *News and views*, **422**, 674

Kenrick, P. Palaeobotany: Fishing for the first plants, *News and views*, **425**, 248

Kent, S M. *See under* Inada, N, **426**, 810

Kent, W J. *See under* Hillier, L W, **424**, 157

See under Thomas, J W, **424**, 788

Kenyon, C. *See under* Murphy, C T, **424**, 277

Kepinski, S. Plant development: An axis of auxin (*with* Leyser, O), *News and views*, **426**, 132

Keppler, H. Carbon solubility in olivine and the mode of carbon storage in the Earth's mantle (*with* Wiedenbeck, M, Shcheka, S S), *Letter to Nature*, **424**, 414

Kern, J A. *See under* Vermeer, P D, **422**, 322

Kern, J S. *See under* Hankins, T H, **422**, 141

Kern, S D. *See under* Elliot, J L, **424**, 165

Kernan, M J. *See under* Kim, J, **424**, 81

Kerner, M. Self-organization of dissolved organic matter to micelle-like microparticles in river water (*with* Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A), *Letter to Nature*, **422**, 150

Kerr, A. Genetic Politics: From Eugenics to Genome (*with* Shakespeare, T), *Book review by* Steinbock, B, **421**, 213

Kersh, E N. *See under* Crotty, S, **421**, 282

Kes, P H. *See under* van der Marel, D, **425**, 271

Kessin, R H. Cell motility: Making streams, *News and views*, **422**, 481

Ketcham, R A. *See under* Clack, J A, **425**, 65

Ketting, R F. *See under* Caudy, A M, **425**, 411

Keusch, G T. Tapping the power of small institutions (*with* Medlin, C A), *Commentary*, **422**, 561

Khavari, P A. *See under* Dajee, M, **421**, 639

Kholodova, M V. *See under* Milner-Gulland, E J, **422**, 135

Khouri, H M. *See under* Read, T D, **423**, 81

Khuong, C. *See under* Chaudhuri, J, **422**, 726

Kïpper, C. *See under* Blomqvist, D, **422**, 833

Kiel, M. *See under* Park, I-K, **423**, 302

Kiers, E T. Host sanctions and the legume–rhizobium mutualism (*with* Rousseau, R A, West, S A, Denison, R F), *Letter to Nature*, **425**, 78

Kikuchi, H. *See under* Takaoka, A, **424**, 516

Kikuchi, K. The plant MITE *mPing* is mobilized in anther culture (*with* Terauchi, K, Wada, M, Hirano, H-Y), *Letter to Nature*, **421**, 167

Kikuchi, M. *See under* Murakami, Y, **423**, 965

Kilbourn, A M. *See under* Walsh, P D, **422**, 611

Kilby, J M. *See under* Wei, X, **422**, 307, **423**, 197

Kile, B T. Functional genetic analysis of mouse chromosome 11 (*with* Hentges, K E, Clark, A T, Nakamura, H, Salinger, A P, Liu, B, Box, N, Stockton, D W, Johnson, R L, Behringer, R R, Bradley, A, Justice, M J), *Letter to Nature*, **425**, 81

Killham, K. *See under* Meharg, A A, **421**, 909

Kilmczuk, T. *See under* Schaak, R E, **424**, 527

Kilner, R M. *See under* Langmore, N E, **422**, 157

Kilpatrick, A M. Species interactions can explain Taylor's power law for ecological time series (*with* Ives, A R), *Correspondence*, **422**, 65

Kim, B G. *See under* Dalton, A B, **423**, 703

Kim, C. *See under* Kim, J, **424**, 81

See under Burgay, M, **426**, 531

Kim, E. *See under* Sung, B-J, **425**, 98

Kim, J. *See under* Yaghi, O M, **423**, 705

A TRPV family ion channel required for hearing in *Drosophila* (*with* Chung, Y D, Park, D-y, Choi, S, Shin, D W, Soh, H, Lee, H W, Son, W, Yim, J, Park, C-S, Kernan, M J, Kim, C), *Letter to Nature*, **424**, 81

See under Lee, Y, **425**, 415

Kim, J C. *See under* Ansley, S J, **425**, 628

Kim, J H. *See under* Schwarz-Linek, U, **423**, 177

See under Sung, B-J, **425**, 98

Kim, M. The expression domain of *PHANTASTICA* determines leaflet placement in compound leaves (*with* McCormick, S, Timmermans, M, Sinha, N), *Letter to Nature*, **424**, 438

Erratum: The expression domain *PHANTASTICA* determines leaflet placement in compound leaves (*with* McCormick, S, Timmermans, M, Sinha, N), *Letter to Nature*, **425**, 102

Kim, M W. *See under* Boamfa, M I, **421**, 149

Kim, S. *See under* Lee, Y, **425**, 415

Kim, S J. Activation of the TRPC1 cation channel by metabotrophic glutamate receptor mGluR1 (*with* Kim, Y S, Yuan, J P, Petralia, R S, Worley, P F, Linden, D J), *Letter to Nature*, **426**, 285

Kim, S O. Epitaxial self-assembly of block copolymers on lithographically defined nanopatterned substrates (*with* Solak, H H, Stoykovich, M P, Ferrier, N J, de Pablo, J J, Nealey, P F), *Letter to Nature*, **424**, 411

See under Hoebe, K, **424**, 743

Kim, V N. *See under* Lee, Y, **425**, 415

Kim, W-Y. *See under* MP, **426**, 567

Kim, Y S. *See under* Kim, S J, **426**, 285

Kimberley, A M. *See under* Mungall, A J, **425**, 805

Kimble, H J. *See under* Kuzmich, A, **423**, 731

See under McKeever, J, **425**, 268

Kimpe, L E. *See under* Krummel, E M, **425**, 255

Kimura, M. *See under* Eckstein-Ludwig, U, **424**, 957

Kimura, T. Magnetic control of ferroelectric polarization (*with* Goto, T, Shintani, H, Ishizaka, K, Arima, T, Tokura, Y), *Letter to Nature*, **426**, 55

Kinbara, K. *See under* Ishii, D, **423**, 628

Kincaid, C. Laboratory models of the thermal evolution of the mantle during rollback subduction (*with* Griffiths, R W), *Letter to Nature*, **425**, 58

King, A. *See under* Mungall, A J, **425**, 805

King, J S. *See under* Loya, W M, **425**, 705

King, M C. *See under* Feldman, M W, **424**, 374

King, N. *See under* Rokas, A, **425**, 798

King, P J. *See under* Catherall, A T, **422**, 579

Kingdon, J. Lowly Origin: Where, When, and Why Our Ancestors First Stood Up, *Book review by* Rook, L, **423**, 804

Kingsley, P D. *See under* Davidson, A J, **425**, 300

Kinsey, J A. *See under* Galagan, J E, **422**, 859

Kippenberg, T J. *See under* Armani, D K, **421**, 925

Kipreos, E T. *See under* Zhong, W, **423**, 885

Kira, M. *See under* Ishida, S, **421**, 725

Kirchner, A. *See under* Knaut, H, **421**, 279

Kiriyama, K. *See under* Tomooka, K, **423**, 60

Kirkness, E F. *See under* Kelley, S P, **424**, 321

Kirtley, J R. *See under* Hilgenkamp, H, **422**, 50
Kis, J. *See under* Blomqvist, D, **422**, 833
Kiselev, S I. Microwave oscillations of a nanomagnet driven by a spin-polarized current (*with* Sankey, J C, Krivorotov, I N, Emley, N C, Schoelkopf, R J, Buhrman, R A, Ralph, D C), *Letter to Nature*, **425**, 380
Kisielewski, A. *See under* Howitz, K T, **425**, 191
Kita, A. *See under* Sugiura, R, **424**, 961
Kita, S. *See under* Yamauchi, T, **423**, 762
Kitagawa, H. *See under* Mizuguchi, S, **423**, 443
  See under Ohtake, F, **423**, 545
Kitajima, M. *See under* Hase, M, **426**, 51
Kitamura, T. *See under* Yamauchi, T, **423**, 762
Kitamura, Y. *See under* Puigserver, P, **423**, 550
Kitano, H. Tumour tactics, *Concepts*, **426**, 125
Kitchikeesic Juden, L. Spiritual link is part of traditional knowledge, *Correspondence*, **421**, 313
Kiyosue, T. *See under* Kawai, H, **421**, 287
Kizawa, H. *See under* Itoh, Y, **422**, 173
Klaholz, B P. Structure of the *Escherichia coli* ribosomal termination complex with release factor 2 (*with* Pape, T, Zavlalov, A V, Myasnikov, A G, Orlova, E V, Vestergaard, B, Ehrenberg, M, van Heel, M), *Letter to Nature*, **421**, 90
Klarreich, E. Take a deep breath, *News feature*, **424**, 873
Klatzo, I. Cécile and Oskar Vogt: The Visionaries of Modern Neuroscience (*with* Zu Rhein, G), *Book review by* Jones, E G, **421**, 19
Klaue, A. *See under* Blum, J D, **423**, 824
Klausberger, T. Brain-state- and cell-type-specific firing of hippocampal interneurons *in vivo* (*with* Magill, P J, Márton, L F, Roberts, J D B, Cobden, P M, Buzsáki, G, Somogyi, P), *Letter to Nature*, **421**, 844
Kleijmeer, M. *See under* Guermonprez, P, **425**, 397
Klein, E M. Earth science: Spread thin in the Arctic, *News and views*, **423**, 932
Klein, H. *See under* Krejci, L, **423**, 305
Klein, J. *See under* Raviv, U, **425**, 163
Klein, P S. *See under* Phiel, C J, **423**, 435
Kleppner, D. Hydrogen: The Essential Element (*by* Rigden, J S), *Book review*, **422**, 119
Klimchuk, J A. Journey From the Center of the Sun (*by* Zirker, J B), *Book review*, **421**, 894
Klintman, J. *See under* Mikkola, H K A, **421**, 547
Klöckner, H-R. Investigation of the obscuring circumnuclear torus in the active galaxy Mrk231 (*with* Baan, W A, Garrett, M A), *Letter to Nature*, **421**, 821
Kloc, Ch. *See under* Schön, J H, **422**, 92, **422**, 93
Klomp, L W J. *See under* Ganesh, L, **426**, 853
Klopper, R R. *See under* Smith, G F, **422**, 375
Klose, S. *See under* Hjorth, J, **423**, 847
  See under Greiner, J, **426**, 157
Klug, A. *See under* Lu, D, **426**, 96
Knapp, G R. *See under* Sahai, R, **426**, 261
Knapp, S. Dynamic diversity, *Concepts*, **422**, 475
Knaut, H. A zebrafish homologue of the chemokine receptor *Cxcr4* is a germ-cell guidance receptor (*with* Werz, C, Geisler, R, Busch-Nentwich, E, Dahm, R, Frohnhofer, H-G, Geiger, H, Gilmour, D, Holley, S, Hooge, J, Julich, D, Maderspacher, F, Maischein, H-M, Neumann, C, Nicolson, T, Roehl, H, Schonberger, U, Seiler, C, Sollner, C, Sonawane, M, van Bebber, F, Wehner, A, Weiler, C, Erkert, P, Habeck, H, Hagner, U, Hennen Kaps, C E, Kirchner, A, Koblizek, T, Langheinrich, U, Loeschke, C, Metzger, C, Nordin, R, Odenthal, J, Pezzuti, M, Schlombs, K, deSantana-Stamm, J, Trowe, T, Vacun, G, Walderich, B, Walker, A, Weiler, C, Nusslein-Volhard, C), *Letter to Nature*, **421**, 279
Knie, K. *See under* Straume, T, **424**, 539
Knight, D. Audubon in Edinburgh: and his Scottish Associates (*by* Chalmers, J), *Book review*, **426**, 767
  Audubon's Elephant: The Story of John James Audubon's Epic Struggle to Publish The Birds of America (*by* Hart-Davis, D), *Book review*, **426**, 767
Knight, J. Discovery changes view of bacteria, *News*, **423**, 909
  Meeting aims to find brain's benchmarks for beauty, *News*, **421**, 305
  US army survey targets Gulf War syndrome, *News*, **421**, 463
  Harvard team suggests route to better bioterror alerts, *News*, **421**, 564
  A dying breed, *News feature*, **421**, 568
  See under Giles, J, **421**, 776
  NASA seeks inspiration from microscopic views of life, *News*, **421**, 878
  Agency 'ignoring its advisors' over Bt maize, *News*, **422**, 5
  Biotech project in turmoil as Michigan balances books, *News*, **422**, 102
  Critics slam US over plans to use riot-control chemicals in the Gulf, *News*, **422**, 363
  Researchers get to grips with cause of pneumonia epidemic, *News*, **422**, 547
  Null and void, *News feature*, **422**, 554
  Trade war looms as US launches challenge over transgenic crops, *News*, **423**, 369
  Clear as mud, *News feature*, **423**, 376
  Biologists moot daunting plan to track viruses (*with* Abbott, A), *News*, **423**, 471
  Divisions sink US consensus effort on transgenic food, *News*, **423**, 574
  Prairie-dog model offers hope of tackling monkeypox virus, *News*, **423**, 674
  Journals wrestle with definition of 'competing' interest, *News*, **423**, 908
  How and who does SARS kill?, *News feature*, **424**, 123
  Is the SARS virus mutating?, *News feature*, **424**, 125
  See under Clarke, T, **424**, 479, **424**, 602
  Plant-disease experts blighted by red tape, *News*, **424**, 713
  Zoologists prime traps for California wildlife survey, *News*, **424**, 987
  Statistical model leaves Peru counting the cost of civil war, *News*, **425**, 6
  Agony for researchers as mix-up forces retraction of ecstasy study, *News*, **425**, 109
  US reflects on flying eye for transgenic crops, *News*, **425**, 112
  California laboratory mourns loss of H-bomb pioneer, *News*, **425**, 226
  Switched on to RNA, *News feature*, **425**, 232
  Drugs bust reveals athletes' secret steroid, *News*, **425**, 752
  No dope, *News feature*, **426**, 114
  Academy calls for improved tests to beat prion disease, *News*, **426**, 216
  GloFish casts light on murky policing of transgenic animals, *News*, **426**, 372
  Promega changes tack in battle over patent, *News*, **426**, 373
  Accusations of bias prompt NIH review of ethical guidelines, *News*, **426**, 741
  Scientists attack industrial influence, *News*, **426**, 741
  See under Brumfiel, G, **426**, 748
Knight, J C. *See under* Reeves, W H, **424**, 511
  Photonic crystal fibres, *Insight review article*, **424**, 846
Knight, M C. *See under* Calvi, L M, **425**, 841
Knight, P J. *See under* Burgess, S A, **421**, 715
Knights, S. *See under* Johnson, D D P, **421**, 911
Knobel, R G. Nanometre-scale displacement sensing using a single electron transistor (*with* Cleland, A N), *Letter to Nature*, **424**, 291
Knoblich, J A. *See under* Betschinger, J, **422**, 326
Knoll, A H. Life on a Young Planet: The First Three Billion Years of Evolution on Earth, *Book review by* Bengtson, S, **423**, 481
  See under Shen, Y, **423**, 632
Knopf, A A. *See under* Watson, J D, **422**, 809
Knorr, G. Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation (*with* Lohmann, G), *Letter to Nature*, **424**, 532
Koashi, M. *See under* Yamamoto, T, **421**, 343
Kobayashi, M. *See under* Itoh, Y, **422**, 173
Koblizek, T. *See under* Knaut, H, **421**, 279
Koch, K W. *See under* Smith, C M, **424**, 657
Koch, R. *See under* Ney, A, **425**, 485
Kocher, T D. Evolutionary biology: Fractious phylogenies, *News and views*, **423**, 489
Kochin, B F. Lack of concern deepens the oceans' problems (*with* Levin, P S), *Correspondence*, **424**, 723
Kocieniewski, P. *See under* Jamora, C, **422**, 317, **424**, 974
Kocisko, D A. *See under* Caughey, B, **425**, 673
Koehler, T M. *See under* Read, T D, **423**, 81
Koella, J C. *See under* Antia, R, **426**, 658
Koen, B V. Discussion of the Method: Conducting the Engineer's Approach to Problem Solving, *Book review by* Ottino, J M, **425**, 18
Koenigsberg, S S. *See under* He, J, **424**, 62
Kohsaka, S. *See under* Tsuda, M, **424**, 778
Koizumi, N. *See under* Ogita, S, **423**, 823
Koizumi, S. *See under* Tsuda, M, **424**, 778
Kojima, H. *See under* Seki, K, **422**, 589
Kokel, M. *See under* Yoshikawa, S, **422**, 583
Koller, J. Ancient materials: Analysis of a pharaonic embalming tar (*with* Baumer, U, Kaup, Y, Scmid, M, Weser, U), *Brief communication*, **425**, 784
Kollmus, H. *See under* Schulz, M, **422**, 48
Kolodkin, A L. *See under* Pasterkamp, R J, **424**, 398
Kolonay, J F. *See under* Read, T D, **423**, 81
Kolsto, A-B. *See under* Read, T D, **423**, 81
Komarova, N L. *See under* Wei, X, **422**, 307, **423**, 197
Komatsu, H. *See under* Itoh, Y, **422**, 173
Komdeur, J. *See under* Richardson, D S, **422**, 580
Kominis, I K. A subfemtotesla multichannel tomic magnetometer (*with* Kornack, T W, Allred, J C, Romalis, M V), *Letter to Nature*, **422**, 596
Komiya, S. *See under* Lavrov, A N, **421**, 230
Konacki, M. An extrasolar planet that transits the disk of its parent star (*with* Torres, G, Jha, S, Sasselov, D D), *Letter to Nature*, **421**, 507
Konner, M. Freedom evolves (*by* Dennett, D), *Book review*, **423**, 17
  Tomorrow's People: How 21st Century Technology is Changing the Way we Think and Feel (*by* Greenfield, S), *Book review*, **426**, 385
Konnerth, A. *See under* Rose, C R, **426**, 74
Koo, S-H. *See under* Herzig, S, **426**, 190
Koonin, E V. Swift publication would reward good reviewers, *Correspondence*, **422**, 374
Koopman, P. Developmental biology: Gender benders, *News and views*, **426**, 241
Kopelman, P. The Hungry Gene: The Science of Fat and the Future of Thin (*by* Shell, E R), *Book review*, **422**, 378
Kopnin, N B. *See under* Finne, A P, **424**, 1022
Kopper, B J. *See under* Percy, K E, **421**, 190
Koratkar, N. *See under* Modi, A, **424**, 171
Korber, B T. *See under* Altfeld, M, **423**, 461
Kornack, T W. *See under* Kominis, I K, **422**, 596
Korotkov, M. *See under* Casolino, M, **422**, 680
Korschinek, G. *See under* Straume, T, **424**, 539
Korsmeyer, S J. *See under* Danial, N N, **424**, 952
  See under Davidson, A J, **425**, 300
  See under Opferman, J T, **426**, 671
Korving, J. *See under* Hurlstone, A F L, **425**, 633
Koskinen, M T. Corrigendum: Contemporary fisherian life-history evolution in small salmonid populations (*with* Haugen, T O, Primmer, C R), *Letter to Nature*, **421**, 656
Kostelich, E J. *See under* Zeff, B W, **421**, 146
Koster, R W. *See under* Hove, J R, **421**, 172
Kostylev, M P. *See under* Demokritov, S O, **426**, 159
Kothari, H M. *See under* Switzer, J A, **425**, 490
Kothe, G O. *See under* Galagan, J E, **422**, 859
Koup, R A. *See under* Sullivan, N J, **424**, 681
Kouveliotou, C. *See under* Hjorth, J, **423**, 847
  See under Greiner, J, **426**, 157
Kovacs, A L. *See under* Vellai, T, **426**, 620
Koval, Y. *See under* Wallraff, A, **425**, 155
Kovalchuk, I. Pathogen-induced systemic plant signal triggers DNA rearrangements (*with* Kovalchuk, O, Kalck, V, Boyko, V, Filkowski, J, Heinlein, M, Hohn, B), *Letter to Nature*, **423**, 760
Kovalchuk, O. *See under* Kovalchuk, I, **423**, 760
Kovalenko, A. The tumour suppressor CYLD negatively regulates NF-κB signalling by deubiquitination (*with* Chable-Bessia, C, Cantarella, G, Israel, A, Wallach, D, Courtois, G), *Letter to Nature*, **424**, 801
Kowalczykowski, S C. *See under* Veaute, X, **423**, 309
  See under Dillingham, M S, **423**, 893
Koyasu, S. *See under* Yamauchi, T, **423**, 762
Kozhevnikov, A A. *See under* Hahnloser, R H R, **421**, 294
Kozjak, V. *See under* Wiedemann, N, **424**, 565
Kozlov, S. *See under* Mounkes, L C, **423**, 298
Kozlowicz-Reilly, A. *See under* Hillier, L W, **424**, 157
Kram, R. *See under* Hutchinson, J R, **422**, 493
Krambeck, H-J. *See under* Semmann, D, **425**, 390
Kramer, C. Role for antisense RNA in regulating circadian clock function in *Neurospora crassa* (*with* Loros, J L, Dunlap, J C, Crosthwaite, S K), *Letter to Nature*, **421**, 948
Krämer, K. *See under* Rüegg, Ch, **423**, 62
Kramer, M. *See under* Burgay, M, **426**, 531
Kramer, T. *See under* Schiermeier, Q, **422**, 459
Krasilnikov, A S. Crystal structure of the specificity domain of ribonuclease P (*with* Yang, X, Pan, T, Mondragon, A), *Letter to Nature*, **421**, 760
Kraus, A. *See under* Bunge, M, **421**, 357
Krause, A E. Compartments revealed in food-web structure (*with* Frank, K A, Mason, D M, Ulanowicz, R E, Taylor, W W), *Letter to Nature*, **426**, 282
Krause, D S. *See under* Neumann, C A, **424**, 561
Krause, D W. *See under* Rogers, R R, **422**, 515
Krauss, L M. Evolving the Alien: The Science of Extraterrestrial Life (*by* Cohen, J, Stewart, I), *Book review*, **421**, 114
  Cosmology: A just-so story, *News and views*, **423**, 230
Krauss, S. *See under* Danial, N N, **424**, 952
Krausz, F. *See under* Baltuška, A, **421**, 611, **422**, 189
Krejci, L. DNA helicase Srs2 disrupts the Rad51 presynaptic filament (*with* Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P), *Letter to Nature*, **423**, 305
Krek, W. *See under* Staller, P, **425**, 307
Krekelberg, B. Neural correlates of implied motion (*with* Dannenberg, S, Hoffman, K-P, Bremmer, F, Ross, J), *Letter to Nature*, **424**, 674
Kreslavsky, M A. *See under* Head, J W, **426**, 797
Kretlow, M. *See under* Sicardy, B, **424**, 168
Kretman, M. *See under* Tian, D, **423**, 74
Krimigis, S M. *See under* Mauk, B H, **421**, 920
  Voyager 1 excited the solar wind at a distance of ~85 AU from the Sun (*with* Decker, R B, Hill, M E, Armstrong, T P, Gloeckler, G, Hamilton, D C, Lanxerotti, L J, Roelof, E C), *Letter to Nature*, **426**, 45
Krisciunas, K. *See under* Hamuy, M, **424**, 651
Krishna, S. *See under* Eckstein-Ludwig, U, **424**, 957
Kritzer, J P. *See under* Mora, C, **421**, 933
Krivorotov, I N. *See under* Kiselev, S I, **425**, 380
Krockenberger, Y. *See under* Alff, L, **422**, 698
Krokan, H E. *See under* Aas, P A, **421**, 859
Kroken, S. *See under* Galagan, J E, **422**, 859
Krol, M C. Continuing emissions of methyl chloroform from Europe (*with* Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A), *Article*, **421**, 131
Kronenberg, H M. Developmental regulation of the growth plate, *Insight review article*, **423**, 332
  See under Calvi, L M, **425**, 841
Krones, A. *See under* Li, X, **426**, 247
Kroon, D. *See under* Bauch, D, **424**, 299
Kroon, P A. *See under* Corder, R, **426**, 119
Kruger, C. No strings attached to $225m sponsorship (*with* Orr Jr, F M), *Correspondence*, **422**, 15
Kruger, M. A conspicuous nickel protein in microbial mats that oxidize methane anerobically (*with* Meyerdierks, A, Glockner, F O, Amann, R, Widdel, F, Kube, M, Reinhardt, R, Kahnt, J, Bocher, R, Thauer, R K, Shima, S), *Letter to Nature*, **426**, 878
Krummel, E M. Delivery of pollutants by spawning salmon (*with* Macdonald, R W, Kimpe, L E, Gregory-Eaves, I, Demers, M J, Smol, J P, Finney, B, Blais, J M), *Brief communication*, **425**, 255
Krupp, N. *See under* Solanki, S K, **425**, 692
Krusius, M. *See under* Finne, A P, **424**, 1022
Krust, A. *See under* Ohtake, F, **423**, 545
Krystofova, S. *See under* Galagan, J E, **422**, 859
Kuang, X. *See under* Xu, X, **421**, 335
Kubatkin, S. Single-electron transistor of a single organic molecule with access to several redox states (*with* Danilov, A, Hjort, M, Cornil, J, Brédas, J-L, Stuhr-Hansen, N, Hedegard, P, Bjornholm, T), *Letter to Nature*, **425**, 698

Kube, M. *See under* Kruger, M, **426**, 878
Kubiske, M E. *See under* Percy, K E, **421**, 190
Kubo, Y. *See under* Dajee, M, **421**, 639
Kuchroo, V K. Immunology: Fast and feel good? (*with* Nicholson, L B), *News and views*, **422**, 27
Kuenen, J G. *See under* Kuypers, M M M, **422**, 608
Kuhlbrandt, W. Structural biology: Dual approach to a light problem, *News and views*, **426**, 399
Kuhlemeier, C. *See under* Reinhardt, D, **426**, 255
Kuiken, T. *See under* Fouchier, R A M, **423**, 240
Kukolj, G. *See under* Lamarre, D, **426**, 186, **426**, 314
Kulikauskas, R M. *See under* Speck, O, **421**, 83
Kulkarni, S R. *See under* Fox, D W, **422**, 284
See under Price, P A, **423**, 844
See under Berger, E, **426**, 154
Kull, F J. *See under* Holmes, K C, **425**, 423
Kulmala, M. *See under* Hari, P, **422**, 134
Kumagai, K. *See under* Hanada, K, **426**, 803
Kuno, T. *See under* Sugiura, R, **424**, 961
Kunwar, P S. Developmental biology: Germ-cell attraction (*with* Lehmann, R), *News and views*, **421**, 226
Kuo, J S. *See under* Shelby, J P, **425**, 38
Kurio, A. *See under* Irifune, T, **421**, 599
Kuris, A M. *See under* Torchin, M E, **421**, 628
Kuroda, H. The plastid *clpP1* protease gene is essential for plant development (*with* Maliga, P), *Letter to Nature*, **425**, 86
Kuroda-Kawaguchi, T. *See under* Skaletsky, H, **423**, 825
Kurras, G. *See under* Michael, P J, **423**, 956
Kurtz, J. Innate defence: Evidence for memory in invertebrate immunity (*with* Franz, K), *Brief communication*, **425**, 37
Kurz, T. *See under* Pintard, L, **425**, 311
Kushiro, T. The key to signalling (*with* Nambara, E, McCourt, P), *Concepts*, **422**, 122
Kutschera, U. Designer scientific literature, *Correspondence*, **423**, 116
Kuypers, M M M. Anaerobic ammonium oxidation by anammox bacteria in the Black Sea (*with* Sliekers, A O, Lavik, G, Schmid, M, Jorgensen, B B, Kuenen, J G, Sinninghe Damste, J S, Strous, M, Jetten, M S M), *Letter to Nature*, **422**, 608
Kuzmich, A. Generation of nonclassical photon pairs for scalable quantum communication with atomic ensembles (*with* Bowen, W P, Boozer, A D, Boca, A, Chou, C W, Duan, L-M, Kimble, H J), *Letter to Nature*, **423**, 731
Kwak, Y-T. *See under* Yamamoto, Y, **423**, 655
Kwan, S. *See under* Cua, D J, **421**, 744
Kwong, P D. *See under* Wei, X, **422**, 307, **423**, 197
Kyndt, F. *See under* Mohler, P J, **421**, 634
Kyoko, S. *See under* Kenichi, T, **423**, 971
Kyrpides, N. *See under* Ivanova, N, **423**, 87

Labib, K. *See under* Kanemaki, M, **423**, 720
Lacalli, T. Developmental biology: A larval revelation, *News and views*, **421**, 120
Evolutionary biology: Body plans and simple brains, *News and views*, **424**, 263
Lacey, D L. *See under* Boyle, W J, **423**, 337
Lacombe, F. *See under* Sicardy, B, **424**, 168
Lafferty, K D. *See under* Torchin, M E, **421**, 628
Lagace, L. *See under* Lamarre, D, **426**, 186, **426**, 314
Lagasse, E. *See under* Wang, X, **422**, 897
Lagerkvist, U. Pioneers of Microbiology and the Nobel Prize, *Book review by* Bynum, W F, **426**, 604
Lagg, A. *See under* Solanki, S K, **425**, 692
Lagrange, A-M. *See under* Sicardy, B, **424**, 168
Lague, D. *See under* Dadson, S J, **426**, 648
Laguës, M. *See under* Schön, J H, **422**, 92
Lagutina, I. *See under* Galli, C, **424**, 635, **425**, 680
Lahm, S A. *See under* Walsh, P D, **422**, 611
Lai, W C. *See under* Su, H T, **423**, 974
Lair, R. *See under* Hutchinson, J R, **422**, 493
Laird, G K. *See under* Mungall, A J, **425**, 805
Lal, N. *See under* McDonald, F B, **426**, 48
Laland, K N. Evolution and Learning: The Baldwin Effect Reconsidered (*by* Weber, B H, Depew, D J), *Book review*, **425**, 345
See under Odling-Smee, F J, **425**, 769
Laloe, F. Obituary: Jean Brossel (1918–2003), *News and views*, **422**, 274
Lam, A C. *See under* Ueda, H, **423**, 506
Lamar, B. *See under* Hillier, L W, **424**, 157
Lamarre, D. An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus (*with* Anderson, P C, Bailey, M, Beaulieu, P, Boiger, G, Bonneau, P, Bos, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, LaPlante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weldon, S M, Yong, C-L, Llinas-Brunet, M), *Letter to Nature*, **426**, 186
An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus (*with* Anderson, P C, Bailey, M, Beaulieu, P, Boiger, G, Bonneau, P, Bös, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, Laplante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weldon, S M, Yong, C-L, Llinas-Brunet, M), *Letter to Nature*, **426**, 314
Lamb, D Q. *See under* Inada, N, **426**, 810
Lamb, J R. *See under* Schadt, E E, **422**, 297
Lamb, S. Cenozoic climate change as a possible cause for the rise of the Andes (*with* Davis, P), *Article*, **425**, 792
Lambert, D M. *See under* Huynen, L, **425**, 175
Lambert, J J. *See under* Kelley, S P, **424**, 321
Lamerdin, J. *See under* Palenik, B, **424**, 1037
See under Rocap, G, **424**, 1042
Lamming, D W. *See under* Howitz, K T, **425**, 191
Lamy, Y. *See under* de Jonge, N, **423**, 461
Lan, F. *See under* Shi, Y, **422**, 735
Lancaster, G P T. *See under* Guide, S, **421**, 48
See under Schmidt-Kaler, F, **422**, 408
Lanctot, R B. *See under* Blomqvist, D, **422**, 833
Land, K J. *See under* Friedberg, E C, **423**, 801
Land, M. *See under* Palenik, B, **424**, 1037
See under Rocap, G, **424**, 1042
Lander, E S. *See under* Kellis, M, **423**, 241
Lander, ES. *See under* Galagan, J E, **422**, 859
Landick, R. *See under* Shaevitz, J W, **426**, 684
Lanford, P J. *See under* Montcouquiol, M, **423**, 173
Lang, A S. *See under* Culley, A I, **424**, 1054
Langenberg, H. Meteorology: Getting the wind up, *News and views*, **422**, 273
Global effort to plot climate change, *News*, **425**, 112
Langenhorst, F. *See under* Dubrovinsky, L, **422**, 58
Langer, C. *See under* Leibfried, D, **422**, 412
Langer, I. *See under* Wood, V, **421**, 94
Langford, C. *See under* Mungall, A J, **425**, 805
Langheinrich, U. *See under* Knaut, H, **421**, 279
Langkjaer, R B. Yeast genome duplication was followed by asynchronous differentiation of duplicated genes (*with* Cliften, P F, Johnston, M, Piškur, J), *Letter to Nature*, **421**, 848
Langlois, D. *See under* Schaal, B, **424**, 68
Langmore, N E. Escalation of a coevolutionary arms race through host rejection of brood parasitic young (*with* Hunt, S, Kilner, R M), *Letter to Nature*, **422**, 157
Langmuir, C H. *See under* Edmonds, H N, **421**, 252
See under Asimow, P D, **421**, 815
See under Michael, P J, **423**, 956
Langston, R. *See under* Day, M, **424**, 205
Lanterman, D D. *See under* Zeff, B W, **421**, 146
Lantz, O. *See under* Treiner, E, **422**, 164, **423**, 1018
Lanzerotti, L J. *See under* Krimigis, S M, **426**, 45
Lanyon, L. *See under* Lee, K, **424**, 389
Lanzara, A. *See under* Zhou, X J, **423**, 398
Lapidus, A. *See under* Ivanova, N, **423**, 87
Laplante, A. *See under* Houde, M, **425**, 402
LaPlante, S R. *See under* Lamarre, D, **426**, 186, **426**, 314
Lappin, S. *See under* Tadin, D, **424**, 312
Lara, A C. *See under* Losos, J B, **424**, 542
Lareau, R T. *See under* Pinnaduwage, L A, **425**, 474
Laric, P L. *See under* Thomas, J W, **424**, 788
Larimer, F W. *See under* Palenik, B, **424**, 1037
See under Rocap, G, **424**, 1042
Larkin, J E. *See under* Turner, J L, **423**, 621
Larkin, R P. *See under* Wikelski, M, **423**, 704
Larochelle, S. *See under* Chen, J, **424**, 228
See under Mang, P K, **426**, 139
Larsen, M. *See under* Sakai, T, **423**, 876
Larsen, N. *See under* Ivanova, N, **423**, 87
Larson, A. *See under* Losos, J B, **424**, 542
Larson, G J. *See under* Alley, R B, **424**, 758
Larsson, G. *See under* Dumoulin, M, **424**, 783
Larsson, M. *See under* McCall, B J, **422**, 500
Larter, S R. *See under* Head, I M, **426**, 344
Lass, E. *See under* Modi, A, **424**, 171
Lass-Evans, S. *See under* Stuart, F M, **424**, 57
Last, A M. *See under* Dumoulin, M, **424**, 783
Latek, R R. *See under* Tootle, T L, **426**, 299
Lathrop, D P. *See under* Zeff, B W, **421**, 146
Latour, S. *See under* Walsh, P D, **422**, 611
Latreille, P. *See under* Hillier, L W, **424**, 157
Latrielle, P. *See under* Skaletsky, H, **423**, 825
Lau, J F. *See under* Taub, J, **421**, 764
Lauquin, G J-M. *See under* Pebay-Peyroula, E, **426**, 39
Lauritzen, S E. *See under* Barkai, R, **423**, 977
Lauwers, G Y. *See under* Thayer, S P, **425**, 851
Lavery, H J. *See under* Bates, S H, **421**, 856
Lavik, G. *See under* Kuypers, M M M, **422**, 608
Lavoie, C. *See under* Detavernier, C, **426**, 641
Lavrov, A N. Addendum: Magnetic shape-memory effects in a crystal (*with* Komiya, S, Ando, Y), *Brief communication*, **421**, 230
Lavu, S. *See under* Howitz, K T, **425**, 191
Lawen, A. Bioethics needs a distinct voice if it is to aid science, *Correspondence*, **425**, 763
Lawlor, S. *See under* Mungall, A J, **425**, 805
Lawrence, C E. *See under* Thomas, J W, **424**, 788
Lawrence, P A. The politics of publication, *Commentary*, **422**, 259
Laws, E A. *See under* Karl, D M, **426**, 32
Lawson, D E. *See under* Alley, R B, **424**, 758
Layman, D. *See under* Hillier, L W, **424**, 157
Lazarov, M. *See under* Dajee, M, **421**, 639
Lazzari, G. *See under* Galli, C, **424**, 635, **425**, 680
Le Bihan, T. *See under* Dubrovinsky, L, **422**, 58
Le Bot, N. *See under* Kamath, R S, **421**, 231
Le Bouc, Y. *See under* Holzenberger, M, **421**, 182
Le Cam, E. *See under* Veaute, X, **423**, 309
Le Fevre, A M. *See under* Donnelly, C A, **426**, 834
Le Maho, Y. The Adelie Penguin: Bellwether of Climate Change (*by* Ainley, D G), *Book review*, **422**, 264
Le Marec, H. *See under* Mohler, P J, **421**, 634
Le Stunff, H. *See under* Coursol, S, **423**, 651
Leach, S. *See under* Ferguson, N M, **425**, 681
Leader, D P. Reproductive cloning: an attack on human dignity, *Correspondence*, **424**, 14
Leader-Williams, N. *See under* Oldfield, T E E, **423**, 531
See under Smith, R J, **426**, 67
Leahy, D J. *See under* Cho, H-S, **421**, 756
Leal, M. *See under* Losos, J B, **424**, 542
Leather, S. *See under* Wood, V, **421**, 94
Leblanc, J. *See under* de Marcillac, P, **422**, 876
Lecacheux, J. *See under* Sicardy, B, **424**, 168
Lecavelier des Etangs, A. *See under* Vidal-Madjar, A, **422**, 143
Lechaplais, C. *See under* Heilig, R, **421**, 601
Lechner, U. *See under* Bunge, M, **421**, 357
Leckie, F. *See under* Mougeot, F, **421**, 737
Lecuit, T. *See under* Desplan, C, **422**, 123
Lederer, F. *See under* Christodoulides, D M, **424**, 817
Lederer, W J. *See under* Mohler, P J, **421**, 634
LeDuc, H G. *See under* Day, P K, **425**, 817
Lee, A. *See under* Ruta, V, **422**, 180
See under Jiang, Y, **423**, 33, **423**, 42
Lee, A G. *See under* Eckstein-Ludwig, U, **424**, 957
Lee, C. *See under* Etchegaray, J-P, **421**, 177
Lee, D-H. *See under* McElroy, K, **422**, 592
Lee, H. A combustion-free methodology for synthesizing zeolites and zeolite-like materials (*with* Zones, S I, Davis, M E), *Letter to Nature*, **425**, 385
Lee, H W. *See under* Kim, J, **424**, 81
Lee, H-H. Jelly belly protein activates the receptor tyrosine kinase Alk to specify visceral muscle pioneers (*with* Norris, A, Weiss, J B, Frasch, M), *Letter to Nature*, **425**, 507
Lee, J. *See under* Lee, Y, **425**, 415
Lee, J A. *See under* Johnson, D, **423**, 138
Lee, J I. *See under* Sung, B-J, **425**, 98
Lee, J T. Molecular biology: Complicity of gene and pseudogene, *News and views*, **423**, 26
See under Huynh, D, **426**, 857
Lee, J-O. *See under* Sung, B-J, **425**, 98
Lee, K. Endocrinology: Bone adaptation requires oestrogen receptor-a (*with* Jessop, H, Suswillo, R, Zaman, G, Lanyon, L), *Brief communication*, **424**, 389
Lee, L C. *See under* Su, H T, **423**, 974
Lee, P J. *See under* Ruban, A V, **421**, 648
Lee, P K. *See under* Altfeld, M, **423**, 461
Lee, P N. Cephalopod *Hox* genes and the origin of morphological novelties (*with* Callaerts, P, de Couet, H G, Martindale, M Q), *Letter to Nature*, **424**, 1061
See under Wikramanayake, A H, **426**, 446
Lee, S. *See under* Goldberger, J, **422**, 599
Lee, S T. Materials science: The road to diamond wafers (*with* Lifshitz, Y), *News and views*, **424**, 500
Lee, T G. *See under* Sung, B-J, **425**, 98
Lee, V M. *See under* Viswanath, V, **423**, 822
Lee, V M-Y. *See under* Phiel, C J, **423**, 435
Lee, Y. The nuclear RNase III Drosha initiates microRNA processing (*with* Ahn, C, Han, J, Choi, H, Kim, J, Yim, J, Lee, J, Provost, P, Radmark, O, Kim, S, Kim, V N), *Letter to Nature*, **425**, 415
Lee, Y S. *See under* Takemaru, K-I, **422**, 905
Lee, Y-S. *See under* Neckers, L, **425**, 357
Lee-Lin, S-Q. *See under* Thomas, J W, **424**, 788
Légaré, F. *See under* Niikura, H, **421**, 826
Legaspi, R. *See under* Thomas, J W, **424**, 788
Leggett, S K. *See under* Elliot, J L, **424**, 165
Lehmann, R. *See under* Kunwar, P S, **421**, 226
Lehnert, K. *See under* Michael, P J, **423**, 956
Lehoucq, R. *See under* Luminet, J-P, **425**, 593
Lehrach, H. *See under* Wood, V, **421**, 94
Lei, M. DNA self-recognition in the structure of Pot1 bound to telomeric single-stranded DNA (*with* Podeli, E R, Baumann, P, Cech, T R), *Letter to Nature*, **426**, 198
Leibfried, D. Experimental demonstration of a robust, high-fidelity geometric two ion-qubit phase gate (*with* DeMarco, B, Meyer, V, Lucas, D, Barrett, M, Britton, J, Itano, W M, Jelenkovic, B, Langer, C, Rosenband, T, Wineland, D J), *Letter to Nature*, **422**, 412
Leigh, D A. Unidirectional rotation in a mechanically interlocked molecular rotor (*with* Wong, J K Y, Dehez, F, Zerbetto, F), *Letter to Nature*, **424**, 174
Leigh Jr, E G. A Magic Web, *Book review by*, Sack, L, Dechmann, D, **424**, 132
Leisner, T. *See under* Duft, D, **421**, 128
Leitch, C C. *See under* Ansley, S J, **425**, 628
Leitenstorfer, A. Femtophysics: Birth of a quasiparticle, *News and views*, **426**, 23
Leitner, W. Catalysis: A greener solution, *News and views*, **423**, 930
Leizerson, I. Wetting properties: When larger drops evaporate faster (*with* Lipson, S G, Lyushnin, A V), *Brief communication*, **422**, 395
Lelaure, V. *See under* Wood, V, **421**, 94
Lelieveld, J. *See under* Krol, M C, **421**, 131
Lellouch, E. Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus (*with* Paubert, G, Moses, J I, Schneider, N M, Strobel, D F), *Letter to Nature*, **421**, 45
See under Sicardy, B, **424**, 168
Lem, J. *See under* Hattar, S, **424**, 76
Lemal, D M. Organic chemistry: Aromatics do the twist, *News and views*, **426**, 776
Lemischka, I R. Stem cells: Interactive niches (*with* Moore, K A), *News and views*, **425**, 778
Lemmens, E E. *See under* Janssen, E M, **421**, 852
Lemonick, M. Echo of the big bang, *Book review by* Carroll, S, **424**, 373
Leneuve, P. *See under* Holzenberger, M, **421**, 182

author index Len–Lu

Lenski, R E. The evolutionary origin of complex features (*with* Ofria, C, Pennock, R T, Adami, C), *Article*, **423**, 139
Life's Solution: Inevitable Humans in a Lonely Universe (*by* Conway Morris, S), *Book review*, **425**, 767
Leon-Avila, G. *See under* Tovar, J, **426**, 172
Leonard, S. *See under* Skaletsky, H, **423**, 825
See under Hillier, L W, **424**, 157
Leone, G. *See under* Wu, L, **421**, 942
Leongamornlert, D A. *See under* Mungall, A J, **425**, 805
Leovy, C B. Mars: The devil is in the dust, *News and views*, **424**, 1008
Lepier, A. *See under* Rose, C R, **426**, 74
Leppla, S H. *See under* Agrawal, A, **424**, 329
Lepri, S. *See under* Livi, R, **421**, 327
Leroux, M R. *See under* Ansley, S J, **425**, 628
Leslie Jr, D M. Multitude of reference styles delays publication (*with* Hamilton, M J), *Correspondence*, **424**, 127
Lessard, J. *Bmi-1* determines the proliferative capacity of normal and leukaemic stem cells (*with* Sauvageau, G), *Article*, **423**, 255
Letal, A. *See under* Opferman, J T, **426**, 671
Levato, H. *See under* Sicardy, B, **424**, 168
Levay, Z G. *See under* Bond, H E, **422**, 405
Levenson, T. Einstein in Berlin, *Book review by* Dyson, F J, **422**, 811
Leversha, M. *See under* Mungall, A J, **425**, 805
Levile, H. *See under* Pizzari, T, **426**, 70
Levin, P S. *See under* Kochin, B F, **424**, 723
Levine, J S. Atmospheric chemistry: Burning domestic issues, *News and views*, **423**, 28
Levine, M. Transcription regulation and animal diversity (*with* Tjian, R), *Review article*, **424**, 147
Levine, S E. *See under* Elliot, J L, **424**, 165
Levison, H F. *See under* Morbidelli, A, **422**, 30
The formation of the Kuiper belt by the outward transport of bodies during Neptune's migration (*with* Morbidelli, A), *Letter to Nature*, **426**, 419
Levy, M. *See under* Heilig, R, **421**, 601
Levy, R. *See under* Hillier, L W, **424**, 157
Lewis, R A. *See under* Ansley, S J, **425**, 628
Lewontin, R C. *See under* Feldman, M W, **424**, 374
Leyrat, C. *See under* Sicardy, B, **424**, 168
Leyser, O. *See under* kepinski, S, **426**, 132
Li, A. Cell cycle: Degradation ensures integrity (*with* Blow, J J), *News and views*, **423**, 818
Li, D. Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen (*with* Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Jochimiak, A, Szakonyi, G, Chen, X S), *Article*, **423**, 512
Corrigendum: Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen (*with* Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Joachimiak, A, Szakonyi, G, Chen, X S), *Letter to Nature*, **425**, 102
Li, G. Biology can be helpful to open-minded physicists, *Correspondence*, **421**, 111
Li, H. *See under* Murphy, C T, **424**, 277
See under Liu, T, **426**, 59
Li, J. *See under* Li, X, **422**, 618
Li, J H. *See under* Wang, H, **421**, 384
Li, L. *See under* Zhang, J, **425**, 836
Li, M. *See under* van der Marel, D, **425**, 271
Li, W. *See under* Galagan, J E, **422**, 859
Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus (*with* Moore, M J, Vasilieva, N, Sui, J, Wong, S K, Berne, M A, Somasundaran, M, Sullivan, J L, Luzuriaga, K, Greenough, T C, Choe, H, Farzan, M), *Letter to Nature*, **426**, 450
Li, W-H. *See under* Gu, Z, **421**, 63
Li, X. Control of tillering in rice (*with* Qian, Q, Fu, Z, Wang, Y, Xiong, G, Zeng, D, Wang, X, Liu, X, Teng, S, Hiroshi, F, Yuan, M, Luo, D, Han, B, Li, J), *Letter to Nature*, **422**, 618
See under Chen, J, **424**, 228
See under Liou, Y-C, **424**, 556
Eya protein phosphatase activity regulates Six1-Dach Eya transcriptional effects in mammalian organogenesis (*with* Oghi, K A, Zhang, J, Krones, A, Bush, K T, Glass, C K, Nigam, S K, Aggarwal, A K, Maas, R, Rose, D W, Rosenfeld, M G), *Article*, **426**, 247
Li, Y. *See under* Shu, D-G, **421**, 526
See under Krejci, L, **423**, 305
Visualization of an unstable coiled coil from the scallop myosin rod (*with* Brown, J H, Reshetnikova, L, Blazsek, A, Farkas, L, Nyitray, L, Cohen, C), *Letter to Nature*, **424**, 341
Li, Y-G. *See under* Vidale, J E, **421**, 524
Li, Z. *See under* Wu, X-C, **426**, 516
Liang, Y. *See under* Fotiadis, D, **421**, 127, **426**, 31
Liberati, S. *See under* Jacobson, T, **424**, 1019
Libert, C. Inflammation: A nervous connection, *News and views*, **421**, 328
Lichtman, J W. *See under* Kasthuri, N, **424**, 426
See under Buffelli, M, **424**, 430
Lichtwark, G A. *See under* Wilson, A M, **421**, 35
Licklider, L J. *See under* Danial, N N, **424**, 952
Lidman, C. *See under* Sicardy, B, **424**, 168
Lieber, C M. *See under* Duan, X, **421**, 241
Liebermann, D. *See under* Amanullah, A, **424**, 741
Lifjeld, J T. *See under* Foerster, K, **425**, 714
Lifshitz, Y. *See under* Lee, S T, **424**, 500
Ligi, M. *See under* Bonatti, E, **423**, 499
Likens, G E. *See under* Blum, J D, **423**, 824
Lilien, J. Safe home planned for Iowa herbarium, *Correspondence*, **425**, 121
Liljegren, S J. *See under* Pinyopich, A, **424**, 85
Liljeros, F. Reply: Social networks: Sexual contacts and epidemic thresholds (*with* Edling, C R, Stanley, H E, Aberg, Y, Amaral, L A N), *Brief communication*, **423**, 606
Lilley, M D. Magmatic events can produce rapid changes in hydrothermal vent chemistry (*with* Butterfield, D A, Lupton, J E, Olson, E J), *Letter to Nature*, **422**, 878
Lillo, F. Econophysics: Master curve for price-impact function (*with* Farmer, J D, Mantegna, R N), *Brief communication*, **421**, 129
Lilyestrom, W. *See under* Li, D, **423**, 512, **425**, 102
Lim, D S W. *See under* Shelby, J P, **425**, 38
Lim, M J. *See under* Thomas, J W, **424**, 788
Lim, W. *See under* Fouchier, R A M, **423**, 240
Lim, W A. *See under* Zarrinpar, A, **426**, 676
Limongi, M. *See under* Bonifacio, P, **422**, 834
Lin, C T. *See under* Zhou, X J, **423**, 398
Lin, H. Stem cells: To be and not to be, *News and views*, **425**, 353
Lin, J. *See under* Dick, H J B, **426**, 405
Lin, J-C. *See under* Dadson, S J, **426**, 648
Lin, K. *See under* Taylor, W R, **421**, 25
Lin, P. *See under* Hoebe, K, **424**, 743
Lin, Q. *See under* Dajee, M, **421**, 639
Lin, Z. *See under* Granick, S, **425**, 467
Lincoln, T. Geochemistry: Zircons and the early Earth, *News and views*, **421**, 331
Palaeontology: Going to work on an egg, *News and views*, **421**, 597
Box 1 Hafnium history, *News and views*, **421**, 902
Atmospheric science: Quick, quick, slow, *News and views*, **422**, 132
Earth science: Stressed in Alaska, *News and views*, **422**, 572
Developmental biology: The trouble with the sex body, *News and views*, **422**, 677
Ecology: A liverwort cheat, *News and views*, **422**, 826
Heavy metal out of air, *News and views*, **423**, 395
Oceanography: Fresh input, *News and views*, **423**, 820
Oceanography: Bloom in cyclone, *News and views*, **424**, 630
Archaeology: The dating game, *News and views*, **424**, 898
Oceanography: No go with the floe, *News and views*, **425**, 143
Zoology: Light touch on the rudder, *News and views*, **425**, 360
Genetics: Dyslexic inheritance, *News and views*, **425**, 573
Atmospheric physics: Breaking waves, *News and views*, **426**, 402
Climate: Warmth, wind and water, *News and views*, **426**, 514
A magnificent seven, *News and views*, **426**, 773
Linde, J. *See under* Rawat, U B S, **421**, 87
Lindell, D. *See under* Rocap, G, **424**, 1042
Linden, D J. *See under* Kim, S J, **426**, 285
Lindley, J A. *See under* Beaugrand, G, **426**, 661
Lindroth, R L. *See under* Percy, K E, **421**, 190
Linehan, J. *See under* White, A R, **422**, 80
Ling, H. Replication of a *cis-syn* thymine dimer at atomic resolution (*with* Boudsocq, F, Plosky, B S, Woodgate, R, Yang, W), *Letter to Nature*, **424**, 1083
Lingappa, J. *See under* Agrawal, A, **424**, 329
Lingel, A. Structure and nucleic-acid binding of the *Drosphila* Argonaute 2 PAZ domain (*with* Simon, B, Izaurralde, E, Attler, M), *Letter to Nature*, **426**, 465
Linklater, A. Measuring America: How an Untamed Wilderness Shaped the United States and Fulfiled the Promise of Democracy, *Book review by* Pyenson, L, **421**, 211
Lins, L. *See under* Vanhamme, L, **422**, 83
Linsley, P S. *See under* Schadt, E E, **422**, 297
Linstead, P. *See under* Foreman, J, **422**, 442
Liotta, L A. *See under* Bottaro, D P, **423**, 593
Liou, Y-C. Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration (*with* Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P), *Letter to Nature*, **424**, 556
Lipkin, Y. *See under* Fox, D W, **422**, 284
Lipman,. *See under* Schuler, B, **421**, 94
Lippincott-Schwartz, J. Membrane trafficking: Coat control by curvature (*with* Liu, W), *News and views*, **426**, 507
Lipson, S G. *See under* Leizerson, I, **422**, 395
Lira, S A. *See under* Cua, D J, **421**, 744
Lisenfeld, J. *See under* Wallraff, A, **425**, 155
Lisztwan, J. *See under* Staller, P, **425**, 307
Lithgow, G J. Physiology: Cost-free longevity in mice (*with* Gill, M S), *News and views*, **421**, 125
Little, M P. A dose of the bomb, *News and views*, **424**, 495
Little, P. *See under* Chakravarti, A, **421**, 412
Littleton, J T. Neurobiology: Synapses unplugged (*with* Sheng, M), *News and views*, **423**, 931
Littlewood, D T J. *See under* Bourlat, S J, **424**, 925
Littlewood, P B. *See under* Parish, M M, **426**, 162
Liu, A. *See under* Huangfu, D, **426**, 83
Liu, B. *See under* Kile, B T, **425**, 81
Liu, H-Q. *See under* Shu, D-G, **421**, 526
Liu, J. Effects of household dynamics on resource consumption and biodiversity (*with* Daily, G C, Ehrlich, P R, Luck, G W), *Letter to Nature*, **421**, 530
See under Wang, Z, **423**, 555
Liu, J O. *See under* Han, A, **422**, 730
Liu, J-h. *See under* Takagi, J, **424**, 969
Liu, J-N. *See under* Shu, D-G, **421**, 526
Liu, T. Self-assembly in aqueous solution of wheel-shaped Mo_{154} oxide clusters into vesicles (*with* Diemann, E, Li, H, Dress, A W M, Müller, A), *Letter to Nature*, **426**, 59
Liu, W. *See under* Lippincott-Schwartz, J, **426**, 507
Liu, X. The effects of surfactants on spilling breaking waves (*with* Duncan, J H), *Letter to Nature*, **421**, 520
See under Li, X, **422**, 618
See under Wang, Z, **423**, 555
Liu, Y. Ligand-receptor binding revealed by the TNF family member TALL-1 (*with* Hong, X, Kappler, J, Jiang, L, Zhang, R, Xu, L, Pan, C-H, Martin, W E, Murphy, R C, Shu, H-B, Dai, S, Zhang, G), *Article*, **423**, 49
Liu, Y-X. *See under* Yin, Y, **422**, 527
Livi, R. Thermal physics: Heat in one dimension (*with* Lepri, S), *News and views*, **421**, 327
Llinas-Brunet, M. *See under* Lamarre, D, **426**, 186, **426**, 314
Lloyd, C R. *See under* Mungall, A J, **425**, 805
Lloyd, D M. *See under* Mungall, A J, **425**, 805
Lo, K Y. *See under* Walter, F, **424**, 406
Loayza, D. POT1 as a terminal transducer of TRF1 telomere length control (*with* de Lange, T), *Letter to Nature*, **423**, 1013
Lobe, C G. *See under* Buffelli, M, **424**, 430
Lobo, C. Materials science: Memories made in microstructure, *News and views*, **423**, 30
Lockyer, A E. *See under* Bourlat, S J, **424**, 925
Lockyer, P J. *See under* Bivona, T G, **424**, 694
Lodish, H F. *See under* Bogan, J S, **425**, 727
Lodwig, E M. Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis (*with* Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S), *Letter to Nature*, **422**, 722
Loeb, A. *See under* Barkana, R, **421**, 341
See under Bromm, V, **425**, 812
Loeschke, C. *See under* Knaut, H, **421**, 279
Löffler, F E. *See under* He, J, **424**, 62
Logan, M. *See under* Serini, G, **424**, 391, **424**, 974
Logothetis, N K. *See under* Ghazanfar, A A, **423**, 937
Logvenov, G. *See under* Bozovic, I, **422**, 873
Lohmann, G. *See under* Knorr, G, **424**, 532
Lohmann, K J. *See under* Boles, L C, **421**, 60
Lohse, M J. *See under* Lorenz, K, **426**, 574
Loidl, R. *See under* Hasegawa, Y, **425**, 45
Lomnicki, A. Impact factors reward and promote excellence, *Correspondence*, **424**, 487
Long, J C. Upperlimits to submillimetre-range forces from extra space-time dimensions (*with* Chan, H W, Churnside, A B, Gulbis, E A, Varney, M C M, Price, J C), *Letter to Nature*, **421**, 922
Long, M. *See under* Marshall, B T, **423**, 190
Longaker, M T. *See under* Warren, S M, **422**, 625
Longtin, A. *See under* Doiron, B, **421**, 539
See under Chacron, M J, **423**, 77
See under Chacron, M J, **423**, 1018
Lonzarich, G G. *See under* Doiron-Leyraud, N, **425**, 595
Looger, L L. Computational design of receptor and sensor proteins with novel functions (*with* Dwyer, M A, Smith, J J, Hellinga, H W), *Letter to Nature*, **423**, 185
Lopez, J. *See under* Winter, Y, **425**, 612
Lopez, R E. *See under* Carlowicz, M J, **422**, 21
Lopez-Urrutia, A. Allometry: How reliable is the biological time clock?, *Brief communication*, **424**, 269
Loren, C E. *See under* Englund, C, **425**, 512
Lorente, N. *See under* Pascual, J I, **423**, 525
Lorenz, K. Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2 (*with* Lohse, M J, Quitterer, U), *Letter to Nature*, **426**, 574
Lorenz, W G. *See under* Bunge, M, **421**, 357
Loreto, V. *See under* D'Anna, G, **424**, 909
Lorimer, D R. *See under* Burgay, M, **426**, 531
Loros, J J. *See under* Dunlap, J C, **425**, 346
Loros, J L. *See under* Kramer, C, **421**, 948
Losos, J B. Niche lability in the evolution of a Caribbean lizard community (*with* Leal, M, Glor, R E, de Queiroz, K, Hertz, P E, Rodriguez Schettino, L, Lara, A C, Jackman, T R, Larson, A), *Letter to Nature*, **424**, 542
Lotto, R B. *See under* Purves, D, **423**, 919
Lotz, M. *See under* Jumaa, H, **423**, 452
Lou, J. *See under* Tong, L, **426**, 816
Lou, Z. MDC1 is coupled to activated CHK2 in mammalian DNA damage response pathways (*with* Minter-Dykhouse, K, Wu, X, Chen, J), *Letter to Nature*, **421**, 957
Louder, M K. *See under* Ganesh, L, **426**, 853
Louesse, C. *See under* Heilig, R, **421**, 601
Lough, J. *See under* McCulloch, M, **421**, 727
Louis, E J. *See under* Delneri, D, **422**, 68
Loveland, J E. *See under* Mungall, A J, **425**, 805
Lovell, J. *See under* Mungall, A J, **425**, 805
Lovelock, J. The living Earth, *Concepts*, **426**, 769
Lövenich, R. *See under* Kaindl, R A, **423**, 734
Lovisolo, C. *See under* Uehlein, N, **425**, 734
Lowe, C. *See under* Ueda, H, **423**, 506
Lowe, T. *See under* Wood, V, **421**, 94
Lowell, B B. *See under* Danial, N N, **424**, 952
Loya, W M. Reduction of soil carbon formation by tropospheric ozone under increased carbon dioxide levels (*with* Pregitzer, K S, Karberg, N J, King, J S, Giardina, C P), *Letter to Nature*, **425**, 705
Lu, D. Crystal structure of a zinc-finger-RNA complex reveals two modes of molecular recognition (*with* Searles, A, Klug, A), *Letter to Nature*, **426**, 96
Lu, G. *See under* Ren, S-X, **422**, 888
Lu, J-C. *See under* Wang, C-T, **424**, 943
Lu, K P. *See under* Liou, Y-C, **424**, 556
Lu, L-F. *See under* Ren, S-X, **422**, 888
Lu, W. Real-time detection of electron tunnelling in a quantum dot (*with* Ji, Z, Pfeiffer, L, West, K W, Rimberg, A J), *Letter to Nature*, **423**, 422
Lu, W T. *See under* Parimi, P V, **426**, 404

Lubchenco, J. Scientific freedom: new strategies are needed (*with* Rosswall, T, Warren, P), *Correspondence*, **421**, 785
Lucas, D. *See under* Leibfried, D, **422**, 412
Lucas, M. *See under* Wood, V, **421**, 94
Lucas, R J. *See under* Hattar, S, **424**, 76
Lucassen, R W. *See under* Deleault, N R, **425**, 717
Lucian, L. *See under* Cua, D J, **421**, 744
Luck, G W. *See under* Liu, J, **421**, 530
Lucocq, J M. *See under* Tovar, J, **426**, 172
Ludden, J N. *See under* Meyzen, C M, **421**, 731
Ludsin, S A. *See under* Mora, C, **421**, 933
Ludwig, K R. *See under* Clark, J D, **423**, 747
Ludwig, M-G. Proton-sensing G-protein-coupled receptors (*with* Vanek, M, Guerini, D, Gasser, J A, Jones, C E, Junker, U, Hofstetter, H, Wolf, R M, Seuwen, K), *Letter to Nature*, **425**, 93
Luecke, H. *See under* Fu, J, **425**, 91
Lukas, J. *See under* Bartek, J, **421**, 486
Lukas, R. *See under* Dore, J E, **424**, 754
Lukashenko, A. *See under* Wallraff, A, **425**, 155
Luke, M P-S. *See under* Shi, Y, **422**, 735
Lukhaup, C. *See under* Scholtz, G, **421**, 806
Lukin, M D. *See under* Bajcsy, M, **426**, 638
Luminet, J-P. Dodecahedral space topology as an explanation for weak wide-angle temperature correlations in the cosmic microwave background (*with* Weeks, J R, Riazuelo, A, Lehoucq, R, Uzan, J-P), *Letter to Nature*, **425**, 593
Lumsden, A. Online comment could promote unfair criticism (*with* Raff, M, Sanes, J R), *Correspondence*, **423**, 918
Lund, K. *See under* Nelson, C, **421**, 187
Lundblad, V. Telomeres: Taking the measure, *News and views*, **423**, 926
Lundstrom, M. *See under* Javey, A, **424**, 654
Luo, D. *See under* Li, X, **422**, 618
Lupton, J E. *See under* Lilley, M D, **422**, 878
Lushchekina, A A. *See under* Milner-Gulland, E J, **422**, 135
Lusis, A J. *See under* Schadt, E E, **422**, 297
Lusk, C. Plant ecology: Tree-species competition and coexistence, *Brief communication*, **422**, 580
Lutfalla, G. *See under* Weill, M, **423**, 136, **425**, 366
Luthi, A. *See under* Humeau, Y, **426**, 841
Lutz, P L. The Biology of Sea Turtles, Volume II (*with* Musick, K A, Wyneken, J), *Book review by* Mrosovsky, N, **423**, 225
Luu, D-T. *See under* Tournaire-Roux, C, **425**, 393
Luzuriaga, K. *See under* Li, W, **426**, 450
Lyne, A G. *See under* Burgay, M, **426**, 531
Lyne, M. *See under* Wood, V, **421**, 94
Lyne, R. *See under* Wood, V, **421**, 94
Lynn, J W. *See under* Kang, H J, **423**, 522
Lynn, W. *See under* Kang, H J, **426**, 140
Lyon, B E. Egg recognition and counting reduce costs of avian conspecific brood parasitism, *Article*, **422**, 495
Lyons, M J. *See under* Van Tonder, G J, **421**, 230
Lyushnin, A V. *See under* Leizerson, I, **422**, 395

Ma, C. *See under* Taub, J, **421**, 764
Ma, D. Fidelity in planar cell polarity signalling (*with* Yang, C-H, McNeill, H, Simon, M A, Axelrod, J D), *Letter to Nature*, **421**, 543
Ma, L-J. *See under* Galagan, J E, **422**, 859
Ma, W. *See under* Ren, S-X, **422**, 888
Maas, J. *See under* Hillier, L W, **424**, 157
Maas, R. *See under* Li, X, **426**, 247
McAllister, R. *See under* Zeff, B W, **421**, 146
McAninch, J E. *See under* Straume, T, **424**, 539
Macaubus, C. *See under* McIntire, J J, **425**, 576
McCall, B J. An enhanced cosmic-ray flux towards ζ Persei inferred from a laboratory study of the H_3^+–e^- recombination rate (*with* Huneycutt, A J, Saykally, R J, Geballe, T R, Djuric, N, Dunn, G H, Semaniak, J, Novotny, O, Al-Khalili, A, Ehlerding, A, Hellberg, F, Kalhori, S, Neau, A, Thomas, R, Österdahl, F, Larsson, M), *Letter to Nature*, **422**, 500
McCann, O T. *See under* Mungall, A J, **425**, 805
McCarren, J. *See under* Palenik, B, **424**, 1037
McCarroll, S A. *See under* Murphy, C T, **424**, 277
McCarthy, M C. *See under* Rahn, T, **424**, 918
McCarthy, P J. *See under* Hamuy, M, **424**, 651
McCarty, M. Discovering genes are made of DNA, *Feature*, **421**, 406
McCleskey, E W. New player in pain, *News and views*, **424**, 729
McCloskey, J C. *See under* Thomas, J W, **424**, 788
McCombie, W R. *See under* Wood, V, **421**, 94
McCormick, D A. *See under* Shu, Y, **423**, 288
McCormick, S. Writing: the clear choice, *Correspondence*, **424**, 128
See under Kim, M, **424**, 438, **425**, 102
McCouch, S R. *See under* Jiang, N, **421**, 163
McCourt, P. *See under* Kushiro, T, **422**, 122
McCreary, M. *See under* Chen, Y, **423**, 136
McCulloch, M. Coral record of increased sediment flux in the inner Great Barrier Reef since European settlement (*with* Fallon, S, Wyndham, T, Hendy, E, Lough, J, Barnes, D), *Letter to Nature*, **421**, 727
MacCulloch, M J. *See under* Gray, N S, **423**, 497
McCulloh, K A. Water transport in plants obeys Murray's law (*with* Sperry, J S, Adler, F R), *Letter to Nature*, **421**, 939
MacDonald, C. Vigilance is vital to avoid conflicts of interest, *Correspondence*, **422**, 469
Macdonald, D W. *See under* Aebischer, N J, **423**, 400
McDonald, F B. Enhancements of energetic particles near the heliospheric termination shock (*with* Stone, E C, Cummings, A C, Heikkila, B, Lal, N, Webber, W R), *Letter to Nature*, **426**, 48
MacDonald, M P. Microfluidic sorting in an optical lattice (*with* Spalding, G C, Dholakia, K), *Letter to Nature*, **426**, 421
Macdonald, R. *See under* Fisher, A T, **421**, 618
Macdonald, R W. *See under* Krummel, E M, **425**, 255
McDonald, S. *See under* Wood, V, **421**, 94
McDowell, J C. *See under* Thomas, J W, **424**, 788
McDowell, N. Joint European plan will tackle Africa's killer diseases, *News*, **421**, 5
Experts cast doubt on Britain's green energy ambitions, *News*, **421**, 879
Inspectors face uphill struggle in search for banned weapons in Iraq, *News*, **422**, 362
Report fuels criticism of UK research council, *News*, **422**, 461
McDuff, R E. *See under* Thomson, R E, **424**, 545
McElheny, V K. Watson and DNA: Making a Scientific Revolution, *Book review by* Gilbert, W, **421**, 315
McElroy, K. Relating atomic-scale electronic phenomena to wave-like quasiparticle states in superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$ (*with* Simmonds, R W, Hoffman, J E, Lee, D-H, Orenstein, J, Eisaki, H, Uchida, S, Davis, J C), *Letter to Nature*, **422**, 592
McElwee, J J. *See under* Gems, D, **424**, 259
McEver, R P. *See under* Marshall, B T, **423**, 190
McEvilly, T V. *See under* Niu, F, **426**, 544
McEwen, B. The End Of Stress As We Know It, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
McFall, K. *See under* Dominiczak, M H, **424**, 128
McFarland, E W. A photovoltaic device structure based on internal electron emission (*with* Tang, J), *Letter to Nature*, **421**, 616
McGill, B J. A test of the unified neutral theory of biodiversity, *Letter to Nature*, **422**, 881
McGrew, M. *See under* Dale, J K, **421**, 275
McHaffie, J G. *See under* Jiang, H, **423**, 982
Machida, Y. *See under* Souma, S, **423**, 65
Macilwain, C. Human cloning claim sparks fear of Senate backlash, *News*, **421**, 3
Against the grain, *News feature*, **422**, 111
McInerney, J P. *See under* Donnelly, C A, **426**, 834
Macino, G. *See under* Galagan, J E, **422**, 859
McIntire, J J. Immunology: Hepatitis A virus link to atopic disease (*with* Umetsu, S E, Macaubus, C, Hoyte, E G, Cinnioglu, C, Cavalli-Sforza, L L, Barsh, G S, Hallmayer, J F, Underhill, P A, Risch, N J, Freeman, G J, DeKruyff, R H, Umetsu, D T), *Brief communication*, **425**, 576
McIntosh, K. *See under* Ranero, C R, **425**, 367
McIntosh, M W. *See under* Boguski, M S, **422**, 233
McIntyre, V. *See under* Berger, E, **426**, 154
McKay, T A. *See under* Inada, N, **426**, 810
McKee, A E. *See under* Bogan, J S, **425**, 727
McKee, B A. *See under* O'Reilly, C M, **424**, 766
McKeever, J. Experimental realization of a one-atom laser in the regime of strong coupling (*with* Boca, A, Boozer, A D, Buck, J R, Kimble, H J), *Letter to Nature*, **425**, 268
MacKenzie, A P. *See under* Hussey, N E, **425**, 814
Mackenzie, D. The Big Splat: or How Our Moon Came to Be, *Book review by* Burns, J A, **425**, 664
McKenzie, D P. *See under* Wasserburg, G J, **422**, 469
McKenzie, V J. *See under* Torchin, M E, **421**, 628
MacKinnon, R. *See under* Ruta, V, **422**, 180
See under Jiang, Y, **423**, 33, **423**, 42
McKinnon, R D. *See under* Yoshikawa, S, **422**, 583
McLachlan, J S. *See under* Clark, J S, **423**, 635
McLaren, S J. *See under* Mungall, A J, **425**, 805
McLaughlin, M. *See under* Burgay, M, **426**, 531
McLay, K. *See under* Mungall, A J, **425**, 805
McLean, I S. *See under* Turner, J L, **423**, 621
Maclean, J. *See under* Pauly, D, **425**, 125
McLean, J. *See under* Wood, V, **421**, 94
McLeod, P. Psychophysics: How fielders arrive in time to catch the ball (*with* Reed, N, Dienes, Z), *Brief communication*, **426**, 244
McMahon, M. *See under* Thayer, S P, **425**, 851
McManus, J F. *See under* Oppo, D W, **422**, 277, **423**, 400
McMurray, A. *See under* Mungall, A J, **425**, 805
McNab, B K. Metabolism: Ecology shapes bird bioenergetics, *Brief communication*, **426**, 620
McNeil, P L. *See under* Bansal, D, **423**, 168
McNeill Alexander, R. Principles of Animal Locomotion, *Book review by* Gatesy, S, **422**, 665
McNeill, H. *See under* Ma, D, **421**, 543
McPhail, D S. *See under* Ryan, M P, **424**, 390
McPherson, J. *See under* Heilig, R, **421**, 601
See under Skaletsky, H, **423**, 825
McPherson, J D. *See under* Hillier, L W, **424**, 157
McQuain, J. *See under* Matthews, P M, **424**, 254
McQueary, C E. How scientists can help to protect US homeland, *Correspondence*, **425**, 451
McQuibban, G A. Mitochondrial membrane remodelling regulated by a conserved rhomboid protease (*with* Saurya, S, Freeman, M), *Letter to Nature*, **423**, 537
Macrakis, K. Hitler's Scientists: Science, War and the Devil's Pact (*by* Cornwell, J), *Book review*, **425**, 766
McSorley, S J. Bioethics: role of religion cannot be ignored, *Correspondence*, **425**, 763
McSweegan, E. Lack of trained security staff delays US visas, *Correspondence*, **423**, 115
McSween Jr, H Y. *See under* Wyatt, M B, **421**, 712
MacWilliams, B. Russia pulls out of Antarctic station, *News*, **422**, 104
Russian scientists face long fight for justice, *News*, **424**, 477
Russian claims first in magnetic imaging, *News*, **426**, 375
Macy, R. Scientific freedom: some face a lonely dilemma, *Correspondence*, **421**, 785
Madan, A. *See under* Heilig, R, **421**, 601, **421**, 601
Maddox, B. The double helix and the 'wronged heroine', *Feature*, **421**, 407
Maddox, J. Obituary: Edward Teller (1908–2003), *News and views*, **425**, 362
The Man Who Changed Everything: The Life of James Clerk Maxwell (*by* Mahon, B), *Book review*, **425**, 765
Reply: How genius can smooth the road to publication, *Correspondence*, **426**, 119
Maddox, P S. *See under* Canman, J C, **424**, 1074
Maderspacher, F. *See under* Knaut, H, **421**, 279
Madison, D H. *See under* Schulz, M, **422**, 48
Madpu, R. *See under* Read, T D, **423**, 81
Madsen, E B. *See under* Radutoiu, S, **425**, 585
A receptor kinase gene of the LysM type is involved in legume perception of rhizobial signals (*with* Madsen, L H, Radutoiu, S, Olbryt, M, Rakwalska, M, Szczyglowski, K, Sato, S, Kaneko, T, Tabata, S, Sandal, N, Stougaard, J), *Letter to Nature*, **425**, 637
Madsen, L H. *See under* Radutoiu, S, **425**, 585
See under Madsen, E B, **425**, 637
Maduro, Q L. *See under* Thomas, J W, **424**, 788
Maduro, V V B. *See under* Thomas, J W, **424**, 788
Maeda, K. *See under* Takeda, S, **424**, 35
Maeda, Y. *See under* Takeda, S, **424**, 35
Maehara, H. *See under* Uemura, M, **423**, 843
Maga, M. *See under* Kappelman, J, **426**, 549
Magdelenat, G. *See under* Heilig, R, **421**, 601
Magill, P J. *See under* Klausberger, T, **421**, 844
Magueijo, J. Faster Than The Speed of Light: The Story of a Scientific Speculation, *Book review by* Ellis, G, **422**, 563
Magurran, A E. Explaining the excess of rare species in natural species abundance distributions (*with* Henderson, P A), *Letter to Nature*, **422**, 714
Mah, A K. *See under* Ansley, S J, **425**, 628
Mah, T-F. A genetic basis for *Pseudomonas aeruginosa* biofilm antibiotic resistance (*with* Pitts, B, Pellock, B, Walker, G C, Stewart, P S, O'Toole, G A), *Letter to Nature*, **426**, 306
Mahalu, D. *See under* Ji, Y, **422**, 415
Mahamoud, Y. *See under* Read, T D, **423**, 81
Mahike, C. *See under* Sánchez, I, **421**, 373
Mahon, B. The Man Who Changed Everything: The Life of James Clerk Maxwell, *Book review by* Maddox, J, **425**, 765
Mahonen, A P. *See under* Bonke, M, **426**, 181
Maiani, G. *See under* Serafini, M, **424**, 1013
Maienschein, J. Whose View of Life? Embryos, Cloning and Stem Cells, *Book review by* Winston, R, **426**, 603
Maier, C. *See under* Hamm, C E, **421**, 841
Maier, E L. *See under* Altfeld, M, **423**, 461
Maini, P K. *See under* Gatenby, R A, **421**, 321
Mains, P E. *See under* Pintard, L, **425**, 311
Mairey-Estrada, B. *See under* Heilig, R, **421**, 601
Maischein, H-M. *See under* Knaut, H, **421**, 279
Maisels, F. *See under* Walsh, P D, **422**, 611
Majerus, M E N. Sex Wars: Genes, Bacteria, and Biased Sex Ratios, *Book review by* Arnqvist, G, **424**, 616
Maki-Yonekura, S. *See under* Yonekura, K, **424**, 643
Mal, N K. Photocontrolled reversible release of guest molecules from coumarin-modified mesoporous silica (*with* Fujiwara, M, Tanaka, Y), *Letter to Nature*, **421**, 350
Malapert, P. *See under* Dale, J K, **421**, 275
Maldacena, J. High-energy physics: Into the fifth dimension, *News and views*, **423**, 695**Maler, L.** , 423, 1018
See under Doiron, B, **421**, 539
See under Chacron, M J, **423**, 77
Malfatti, S. *See under* Rocap, G, **424**, 1042
Maliga, P. Plant biology: Mobile plastid genes, *News and views*, **422**, 31
See under Kuroda, H, **425**, 86
Malinina, L. *See under* Ye, K, **426**, 874
Malinowski, P. *See under* Muller, M M, **424**, 309, **426**, 584
Malloch, D. *See under* Currie, C R, **423**, 461
Maltra, A. *See under* Berman, D M, **425**, 846
Mamdouh, Z. Targeted recycling of PECAM from endothelial surface-connected compartments during diapedesis (*with* Chen, X, Pierini, L M, Maxfield, F R, Muller, W A), *Letter to Nature*, **421**, 748
Manchester, R N. *See under* Burgay, M, **426**, 531
Mandel, T. *See under* Reinhardt, D, **426**, 255
Mang, P K. Condensed-matter physics: Spurious magnetism in high-T_c superconductor (*with* Larochelle, S, Greven, M), *Brief communication*, **426**, 139
Manga, M. *See under* Gonnermann, H M, **426**, 432
Mangeat, B. Broad antiretroviral defence by human APOBEC3G through lethal editing of nascent reverse transcripts (*with* Turelli, P, Caron, G, Friedli, M, Perrin, L, Trono, D), *Letter to Nature*, **424**, 99
Mangenot, S. *See under* Heilig, R, **421**, 601
Manjunath, N. *See under* Mora, J R, **424**, 88
Mann, J. Organic Syntheses Database (*by* Wiley/Organic Syntheses Inc), *Book review*, **426**, 122
Mann, J C. *See under* Boamfa, M I, **421**, 149
Mann, M. *See under* Tyers, M, **422**, 193
See under Aebersold, R, **422**, 198
See under Andersen, J S, **426**, 570
Mann, M E. *See under* Adams, J B, **426**, 274
Mann, N. *See under* Hoebe, K, **424**, 743
Mann, N H. Bacterial photosynthesis genes in a virus (*with* Cook, A, Millard, A, Bailey, S, Clokie, M), *Brief communication*, **424**, 741

Mannhart, J. *See under* Ahn, C H, **424**, 1015
Mannhaupt, G. *See under* Galagan, J E, **422**, 859
Manning, L. *See under* Pinnaduwage, L A, **425**, 474
Manske, D. *See under* Alff, L, **422**, 698
Mantegna, R N. *See under* Lillo, F, **421**, 129
Mantilla-Beniers, N B. *See under* Rohani, P, **422**, 865
Mao, M. *See under* Schadt, E E, **422**, 297
Maratos-Flier, E. *See under* Bates, S H, **421**, 856
Marcano, L. *See under* Sucre, M G, **422**, 257
Marchant, D R. *See under* Head, J W, **426**, 797
Marchetti, A A. *See under* Straume, T, **424**, 539
Marchisio, P C. *See under* Ceci, M, **426**, 579
Marcikic, I. Long-distance teleportation of qubits at telecommunication wavelengths (*with* de Riedmatten, H, Tittel, W, Zbinden, H, Gisin, N), *Letter to Nature*, **421**, 509
Marcotte, E. *See under* Galagan, J E, **422**, 859
Mardis, E. *See under* Skaletsky, H, **423**, 825
Mardis, E R. *See under* Hillier, L W, **424**, 157
Mardon, G. *See under* Rayapureddi, J P, **426**, 295
Marek, K W. *See under* Poskanzer, K E, **426**, 559
Margadonna, S. *See under* Arvanitidis, J, **425**, 599
Margoliash, D. *See under* Gentner, T Q, **424**, 669
See under Fenn, K M, **425**, 614
Margolin, B S. *See under* Selker, E U, **422**, 893
Margulies, E H. *See under* Thomas, J W, **424**, 788
Mariani, F V. Deciphering skeletal patterning: clues from the limb (*with* Martin, G R), *Insight review article*, **423**, 319
Marinkovich, M P. *See under* Dajee, M, **421**, 639
Markwardt, C B. *See under* Chakrabarty, D, **424**, 42
See under Wijnands, R, **424**, 44
Marmottant, P. Controlled vesicle deformation and lysis by single oscillating bubbles (*with* Hilgenfeldt, S), *Letter to Nature*, **423**, 153
Maroto, M. *See under* Dale, J K, **421**, 275
Marra, M A. *See under* Hillier, L W, **424**, 157
Marsh-Armstrong, N. *See under* Kefalov, V, **425**, 526
Marshall, B T. Direct observation of catch bonds involving cell-adhesion molecules (*with* Long, M, Piper, J W, Yago, T, McEver, R P, Zhu, C), *Letter to Nature*, **423**, 190
Marshall, C H. Crop freezes and land-use change in Florida (*with* Pielke Sr, R A, Steyaert, L T), *Brief communication*, **426**, 29
Marshall Graves, J A. The X in Sex: How the Chromosome Controls our Lives (*by* Bainbridge, D), *Book review*, **423**, 223
Y: The Descent of Men (*by* Jones, S), *Book review*, **423**, 223
Marshall, R C. Making a song and dance about emotion, *Correspondence*, **423**, 221
Fiendishly clever?, *Correspondence*, **423**, 918
Marszalek, J D. *See under* Rozen, S, **423**, 873
Marte, B. Cell biology: It's the old story of yeast, *News and views*, **425**, 472
Martian, A. *See under* Banavar, J R, **421**, 713
See under Volkov, I, **424**, 1035
Martin, C. Optical alchemy, *Science in culture*, **424**, 133
Installation: Making haze, *Book review*, **426**, 123
Seeing the light, *Exhibition review*, **426**, 387
Martin, G. Unbalanced view of a dynamic world, *Correspondence*, **423**, 115
Martin, G R. *See under* Mariani, F V, **423**, 319
Martin, K. Cortex and Mind: Unifying Cognition (*by* Fuster, J M), *Book review*, **423**, 383
Martin, K A C. The Bard on the Brain: Understanding the Mind Through the Art of Shakespeare and the Science of Brain Imaging (*by* Matthews, P M, McQuain, J), *Book review*, **424**, 254
Martin, M. *See under* de Joussineau, C, **426**, 555
Martin, O Y. The evolution of reproductive isolation through sexual conflict (*with* Hosken, D J), *Letter to Nature*, **423**, 979
Martin, R D. Palaeontology: Combing the primate record, *News and views*, **422**, 388
Martin, R M. Condensed-matter physics: Hydrogen falls into line (*with* Galli, G), *News and views*, **423**, 595
Martin, R P. *See under* Calvi, L M, **425**, 841
Martin, S. *See under* Mungall, A J, **425**, 805
Martin, S G. A role for *Drosophila* LKB1 in anterior-posterior axis formation and epithelial polarity (*with* St Johnston, D), *Letter to Nature*, **421**, 379
Martin, T F J. *See under* Wang, C-T, **424**, 943
Martin, V. *See under* Jepson, P D, **425**, 575
Martin, W. *See under* Henze, K, **426**, 127
Martin, W E. *See under* Liu, Y, **423**, 49
Martin-Mayor, V. *See under* Grigera, T S, **422**, 289
Martindale, M Q. *See under* Lee, P N, **424**, 1061
See under Wikramanayake, A H, **426**, 446
Martinelli, R. *See under* Straume, T, **424**, 539
Martinez, L O. Ectopic β-chain of ATP synthase is an apolipoprotein A-I receptor in hepatic HDL endocytosis (*with* Jacquet, S, Esteve, J-P, Rolland, C, Cabezon, E, Champagne, E, Pineau, T, Georgeaud, V, Walker, J E, Terce, F, Collet, X, Perret, B, Barbaras, R), *Letter to Nature*, **421**, 75
Martinez-Meyer, E. *See under* Raxworthy, C J, **426**, 837
Martini, N. *See under* Parker, A R, **426**, 786
Martino, G. *See under* Pluchino, S, **422**, 688
Martins, N. *See under* Heilig, R, **421**, 601
Márton, L F. *See under* Klausberger, T, **421**, 844
Marty, B. Geochemical evidence for efficient aquifer isolation over geological timeframes (*with* Dewonck, S, France-Lanord, C), *Letter to Nature*, **425**, 55
Maruyama, M. *See under* Itoh, Y, **422**, 173
Mary, I. *See under* Bibby, T S, **424**, 1051
Marzuola, C. All change as Argentina's science leader keeps his job, *News*, **423**, 672
Mascola, J R. *See under* Ganesh, L, **426**, 853
Maser, R S. *See under* Wong, K-K, **421**, 643
Masetti, N. *See under* Hjorth, J, **423**, 847
Mashreghi-Mohammadi, M. *See under* Mungall, A J, **425**, 805
Masiello, C A. *See under* Thomas, J W, **424**, 788
Maskeri, B. *See under* Thomas, J W, **424**, 788
Masland, R H. The retina's fancy tricks, *News and views*, **423**, 387
Maslen, G L. *See under* Mungall, A J, **425**, 805
Mason, B. Judge's sacking rocks Everglades clean-up, *News*, **425**, 551
Planetary science: Less of an impact, *News and views*, **425**, 573
National Academy calls for sea change in ocean efforts, *News*, **426**, 6
Geologists call for desalination of Gaza Strip's water, *News*, **426**, 110
Ecologists attack endangered-species logjam, *News*, **426**, 592
Mason, D M. *See under* Krause, A E, **426**, 282
Mason, G. *See under* Clubb, R, **425**, 473
Mason, K. *See under* Cho, H-S, **421**, 756
Masood, E. Knowledge and Diplomacy: Science Advice in the United Nations System (*by* Committee for Survey and Analysis of Science Advice on Sustainable Development to International Organizations, Development, Security, and Cooperation, National Research Council), *Book review*, **422**, 471
A continent divided, *News feature*, **426**, 224
Mastrian, S D. *See under* Thomas, J W, **424**, 788
Matagne, A. *See under* Dumoulin, M, **424**, 783
Mathewes, R W. *See under* Zazula, G D, **423**, 603
Mathur, S. *See under* Nicastro, F, **421**, 719
Matricon, J. Cold wars: A History of Superconductivity (*with* Waysand, G), *Book review by* Anderson, P W, **426**, 17
Matskevich, I. *See under* Duncan, R R, **422**, 176
Matson, P A. *See under* Tilman, D, **422**, 398
Matsuda, F. *See under* Heilig, R, **421**, 601
Matsui, H. *See under* Souma, S, **423**, 65
Matsumoto, H. *See under* Seki, K, **422**, 589
Matsumoto, T. *See under* Ohtake, F, **423**, 545
Matsumura, F. *See under* Itoh, Y, **422**, 173
Matsuoka, R. *See under* Garg, V, **424**, 443
Matsushita, T. Dimers of the N-terminal domain of phytochrome B are functional in the nucleus (*with* Mochizuki, N, Nagatani, A), *Letter to Nature*, **424**, 571
Matsutani, T. *See under* Sakaguchi, N, **426**, 454
Matsuura, M. *See under* Kang, H J, **423**, 522, **426**, 140
Mattaj, I W. *See under* Walther, T C, **424**, 689
Matthews, L. *See under* Mungall, A J, **425**, 805
Matthews, P M. The Bard on the Brain: Understanding the Mind Through the Art of Shakespeare and the Science of Brain Imaging (*with* McQuain, J), *Book review by* Martin, K A C, **424**, 254
Matthias, S. Asymmetric pores in a silicon membrane acting as massively parallel brownian ratchets (*with* Müller, F), *Letter to Nature*, **424**, 53
Mattingly, D. *See under* Jacobson, T, **424**, 1019
Mattson, M P. Neurobiology: Ballads of a protein quartet, *News and views*, **422**, 385
Mauceli, E. *See under* Galagan, J E, **422**, 859
Mauch, T. *See under* Fox, D W, **422**, 284
Mauk, B H. Energetic neutral atoms from a trans-Europa gas torus at Jupiter (*with* Mitchell, D G, Krimigis, S M, Roelof, E C, Paranicas, C P), *Letter to Nature*, **421**, 920
Maupin, R. *See under* Skaletsky, H, **423**, 825
See under Hillier, L W, **424**, 157
Maurel, C. *See under* Tournaire-Roux, C, **425**, 393
Maurice-Bourgoin, L. *See under* Aalto, R, **425**, 493
Maury, A. *See under* Sicardy, B, **424**, 168
Maxfield, F R. *See under* Mamdouh, Z, **421**, 748
Maxwell, A P. *See under* Ueda, H, **423**, 506
Maxwell, I. *See under* Tong, L, **426**, 816
Maxwell, T. *See under* Whiting, M F, **421**, 264
May, A. DNA discrepancy, *Correspondence*, **421**, 210
May, R M. *See under* Keeling, M J, **421**, 136
Mayes, A M. *See under* Gonzalez-Leon, J A, **426**, 424
Mayor, M. *See under* Vidal-Madjar, A, **422**, 143
New Worlds in the Cosmos: The Discovery of Exoplanets (*with* Frei, P-Y, Roukema, B), *Book review by* Boss, A, **426**, 386
Mayor, P. *See under* D'Anna, G, **424**, 909
Mayor, T. *See under* Andersen, J S, **426**, 570
Mayor, U. The complete folding pathway of a protein from nanoseconds to microseconds (*with* Guydosh, N R, Johnson, C M, Grossman, J G, Sato, S, Jas, G S, Freund, S M V, Alonso, D O V, Daggett, V, Fersht, A R), *Letter to Nature*, **421**, 863
Maza, J. *See under* Hamuy, M, **424**, 651
Mazin, B A. *See under* Day, P K, **425**, 817
Mazo, A. *See under* Sedkov, Y, **426**, 78
Mazur, E. *See under* Tong, L, **426**, 816
Mazur, M. *See under* Ivanova, N, **423**, 87
Mazzenga, G. *See under* Casolino, M, **422**, 680
Mbina, C. *See under* Walsh, P D, **422**, 611
Mduma, S. *See under* Sinclair, A R E, **425**, 288
Mechtler, K. *See under* Betschinger, J, **422**, 326
Medlin, C A. *See under* Keusch, G T, **422**, 561
Medvedik, O. *See under* Andersen, R M, **423**, 181
Medvinsky, A. Stem cells: Fusion brings down barriers (*with* Smith, A), *News and views*, **422**, 823
Meerholz, K. *See under* Müller, D C, **421**, 829
Megens, M. Capillary attraction: Like-charged particles at liquid interfaces (*with* Aizenberg, J), *Brief communication*, **424**, 1014
Meharg, A. The arsenic green, *Science in culture*, **423**, 688
Meharg, A A. A pre-industrial source of dioxins and furans (*with* Killham, K), *Brief communication*, **421**, 909
Mehlen, P. Neurobiology: A new way to network, *News and views*, **424**, 381
Mehregany, M. *See under* Ming, X, **421**, 496
Meier, D S. *See under* Turner, J L, **423**, 621
Meijer, E W. Chemistry: Dendrimers set to self-destruct (*with* van Genderen, M H P), *News and views*, **426**, 128
Meischner, D. *See under* Siddall, M, **423**, 853
Meisinger, C. *See under* Wiedemann, N, **424**, 565
Meisler, M H. *See under* Jones, J M, **425**, 721
Meister, M. *See under* Ölveczky, B P, **423**, 401
Melchett, P. Consumers don't want GM, so why use it?, *Correspondence*, **424**, 995
Melosh, H J. Planetary science: The history of air, *News and views*, **424**, 22
Mena, S S. *See under* Gaunt, M W, **421**, 936
Menard, M. *See under* Heilig, R, **421**, 601
Mende, S B. *See under* Frey, H U, **426**, 533
Mendoza, C. Venezuelan researchers call for international help (*with* Urbina, J A), *Correspondence*, **421**, 473
Ménétrey, J. *See under* Coureux, P-D, **425**, 419
Meng, H. *See under* Schön, J H, **422**, 92
Meng, Q. Metallurgy: Stainless-steel corrosion and MnS inclusions (*with* Frankel, G S, Colijn, H O, Goss, S H), *Brief communication*, **424**, 389
Meng, T-C. *See under* Salmeen, A, **423**, 769
Menon, J. *See under* Wong, K-K, **421**, 643
Menon, L. *See under* Dawkins, R, **422**, 813
Menten, K M. *See under* Walter, F, **424**, 406
Mereghetti, S. *See under* Bignami, G F, **423**, 725
Merenmies, J. *See under* Nef, S, **426**, 291
Merkel, R. *See under* Hamm, C E, **421**, 841
Merzenich, M M. *See under* Zhang, L I, **424**, 201
Meszaros, P. The supernova connection, *News and views*, **423**, 809
Metraux, G S. *See under* Jin, R, **425**, 487
Metzenberg, R L. *See under* Galagan, J E, **422**, 859
Metzger, C. *See under* Knaut, H, **421**, 279
Metzinger, L. *See under* Gutmann, S, **424**, 699
Metzker, M L. *See under* Ueda, H, **423**, 506
Mevel, C. *See under* Meyzen, C M, **421**, 731
Mewes, W. *See under* Galagan, J E, **422**, 859
Meyer, A. Molecular evolution: Duplication, duplication, *News and views*, **421**, 31
The Delphic Boat: What Genomes Tell Us (*by* Danchin, A, Quayle, A), *Book review*, **422**, 564
The Development of Animal Form: Ontogeny, Morphology, and Evolution (*by* Minelli, A), *Book review*, **424**, 255
Meyer, B J. *See under* Chan, R C, **423**, 1002
Meyer, V. *See under* Leibfried, D, **422**, 412
Meyerdierks, A. *See under* Kruger, M, **426**, 878
Meysman, F J R. *See under* Staal, M, **425**, 504
Meyzen, C M. A discontinuity in mantle composition beneath the southwest Indian ridge (*with* Toplis, M J, Humler, E, Ludden, J N, Mevel, C), *Letter to Nature*, **421**, 731
Mezic, I. *See under* Solomon, T H, **425**, 376
Miao, Y-G. *See under* Ren, S-X, **422**, 888
Michael, P J. *See under* Edmonds, H N, **421**, 252
Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel Ridge, Arctic Ocean (*with* Langmuir, C H, Dick, H J B, Snow, J E, Goldstein, S L, Graham, D W, Lehnert, K, Kurras, G, Jokat, W, Muhe, R, Edmonds, H N), *Article*, **423**, 956
Michel, P. Disruption of fragmented parent bodies as the origin of asteroid families (*with* Benz, W, Richardson, D C), *Letter to Nature*, **421**, 608
Michell, B. Editors are meant to be judges, not postmen, *Correspondence*, **423**, 479
Mie, T. *See under* Ose, T, **422**, 185
Miedema, H. *See under* Foreman, J, **422**, 442
Mietto, P. Human footprints in Pleistocene volcanic ash (*with* Avanzini, M, Rolandi, G), *Brief communication*, **422**, 133
Migliori, A. *See under* Balakirev, F F, **424**, 912
Mihaly, S F. *See under* Thomson, R E, **424**, 545
Mihara, K. Cell biology: Moving inside membranes, *News and views*, **424**, 505
Mihindou, Y. *See under* Walsh, P D, **422**, 611
Mikhallova, N. *See under* Ivanova, N, **423**, 87
Miki, H. *See under* Yamazaki, D, **424**, 452
Mikkola, H K A. Haematopoietic stem cells retain long-term repopulating activity and multipotency in the absence of stem-cell leukaemia SCL/*tal-1* gene (*with* Klintman, J, Yang, H, Hock, H, Schlaeger, T M, Fujiwara, Y, Orkin, S H), *Letter to Nature*, **421**, 547
Miklius, A. Interaction between Kilauea and Mauna Loa (*with* Cervelli, P), *Brief communication*, **421**, 229
Miles, G A J. *See under* Gaunt, M W, **421**, 936
Miles, M A. Malaria — there could be a third way, *Correspondence*, **421**, 13
See under Gaunt, M W, **421**, 936
Milinski, M. *See under* Semmann, D, **425**, 390
Millar, C D. *See under* Huynen, L, **425**, 175
Millard, A. *See under* Mann, N H, **424**, 741
Miller, A L. *See under* Sage, J, **424**, 223
Miller, H. The Cruise of the Betsy with Rambles of a Geologist (*with* Smout, T C, Taylor, M A), *Book review by* Janvier, P, **426**, 19
Miller, M W. Horizontal prion transmission in mule deer (*with* Williams, E S), *Brief communication*, **425**, 35
Miller, N. *See under* Hillier, L W, **424**, 157
Miller, R F. The oldest articulated chondrichthyan from the Early Devonian period (*with* Cloutier, R, Turner, S), *Letter to Nature*, **425**, 501
Miller, S D. *See under* Hristov, T S, **422**, 55

Miller, W. *See under* Thomas, J W, **424**, 788
Miller-Butterworth, C M. Strong population substructure is correlated with morphology and ecology in a migratory bat (*with* Jacobs, D S, Harley, E H), *Letter to Nature*, **424**, 187
Milliff, R F. *See under* Pickart, R S, **424**, 152
Milligan, S B. *See under* Schadt, E E, **422**, 297
Milliken, R E. *See under* Head, J W, **426**, 797
Mills, E M. Uncoupling the agony from ecstasy (*with* Banks, M L, Sprague, J E, Finkel, T), *Brief communication*, **426**, 403
Mills, I A. *See under* Tootle, T L, **426**, 299
Milne, S. *See under* Mungall, A J, **425**, 805
Milner, L A. *See under* Calvi, L M, **425**, 841
Milner-Gulland, E J. Conservation: Reproductive collapse in saiga antelope harems (*with* Bukreeva, O M, Coulson, T, Lushchekina, A A, Kholodova, M V, Bekenov, A B, Grachev, I A), *Brief communication*, **422**, 135
Mimura, J. *See under* Ohtake, F, **423**, 545
Minarik, B. Planetary science: The core of planet formation, *News and views*, **422**, 126
Minelli, A. The Development of Animal Form: Ontogeny, Morphology, and Evolution, *Book review by* Meyer, A, **424**, 255
Miner, T. *See under* Skaletsky, H, **423**, 825
Miner, T L. *See under* Hillier, L W, **424**, 157
Minetti, A E. Efficiency of equine express postal systems, *Brief communication*, **426**, 785
Ming, X. Nanoelectrmechanical systems: Nanodevice motion at microwave frequencies (*with* Huang, H, Zorman, C A, Mehregany, M, Roukes, M L), *Brief communication*, **421**, 496
Minter-Dykhouse, K. *See under* Lou, Z, **421**, 957
Minton, A P. *See under* Ellis, R J, **425**, 27
Minx, P. *See under* Hillier, L W, **424**, 157
Minx, P J. *See under* Skaletsky, H, **423**, 825
See under Rozen, S, **423**, 873
Mirkin, C A. *See under* Jin, R, **425**, 487
Mishina, Y. *See under* Zhang, J, **425**, 836
Missler, M. α-Neurexins couple Ca^{2+} channels to synaptic vesicle exocytosis (*with* Zhang, W, Rohlmann, A, Kattenstroth, G, Hammer, R E, Gottmann, K, Sudhof, T C), *Article*, **423**, 939
Miswander, L. *See under* Huangfu, D, **426**, 83
Mitani, S. *See under* Mizuguchi, S, **423**, 443
Mitchell, C E. Release of invasive plants from fungal and viral pathogens (*with* Power, A G), *Letter to Nature*, **421**, 625
Mitchell, D G. *See under* Mauk, B H, **421**, 920
Mitchell, S G. *See under* Reiners, P W, **426**, 645
Mitchison, T J. *See under* Canman, J C, **424**, 1074
Mithen, S. After the Ice: A Global Human History 20,000–5000 BC, *Book review by* Bettinger, R, **425**, 453
Mitrofanov, I G. Astrophysics: A constraint on canonical quantum gravity?, *Brief communication*, **426**, 139
Mitschler, A. *See under* Billas, I M L, **426**, 91
Mitsui, K. *See under* Takahashi, K, **423**, 541
Mitsuko, O. *See under* Kenichi, T, **423**, 971
Mitsul, T. Dissociative hydrogen adsorption on palladium requires aggregates of three or more vacancies (*with* Rose, M K, Fomin, E, Ogletree, D F, Salmeron, M), *Letter to Nature*, **422**, 705
Mittmann, B. *See under* Scholtz, G, **421**, 806
Miura, Y. *See under* Hanada, K, **426**, 803
Mix, A C. Climate change: Chilled out in the ice-age Atlantic, *News and views*, **425**, 32
Miyagishi, M. *See under* Yamauchi, T, **423**, 762
Miyahara, T. *See under* Ishii, H, **426**, 540
Miyake, K. *See under* Bansal, D, **423**, 168
Miyazawa, A. Structure and gating mechanism of the acetylcholine receptor pore (*with* Fujiyoshi, Y, Unwin, N), *Article*, **423**, 949
Mizokoshi, A. *See under* Tsuda, M, **424**, 778
Mizrahi, S. *See under* Gordon, J M, **424**, 510
Mizuguchi, S. Chondroitin proteoglycans are involved in cell division of *Caenorhabditis elegans* (*with* Uyama, T, Kitagawa, H, Nomura, K H, Dejima, K, Gengyo, Ando, K, Mitani, S, Sugahara, K, Nomura, K), *Letter to Nature*, **423**, 443
Mizutani, A. Insect behaviour: Motion camouflage in dragonflies (*with* Chahl, J S, Srinivasan, M V), *Brief communication*, **423**, 604
Moallc, J-P. *See under* de Marcillac, P, **422**, 876
Moch, H. *See under* Staller, P, **425**, 307
Mochizuki, N. *See under* Matsushita, T, **424**, 571
Modi, A. Miniaturized gas ionization sensors using carbon nanotubes (*with* Koratkar, N, Lass, E, Wei, B, Ajayan, P M), *Letter to Nature*, **424**, 171
Moestl, D. *See under* Wood, V, **421**, 94
Mogensen, K. *See under* Weill, M, **423**, 136, **425**, 366
Mogilner, A. *See under* Scholey, J M, **422**, 746
Moguilevsky, N. *See under* Vanhamme, L, **422**, 83
Mohiuddin, U. *See under* Wellman, C H, **425**, 282
Mohler, P J. Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death (*with* Schott, J-J, Gramolini, A O, Dilly, K W, Guatimosim, S, duBell, W H, Song, L-S, Haurogne, K, Kyndt, F, Ali, M E, Rogers, T B, Lederer, W J, Escande, D, Le Marec, H, Bennett, V), *Letter to Nature*, **421**, 634
Mojon, D S. *See under* Mojon-Azzi, S M, **421**, 209
Mojon-Azzi, S M. Journals: redundant publications are bad news (*with* Jiang, X, Wagner, U, Mojon, D S), *Correspondence*, **421**, 209
Mojzsis, S J. Global change: Probing early atmospheres, *News and views*, **425**, 249
Molegraaf, H J A. *See under* van der Marel, D, **425**, 271
Molina-Heredia, F P. Photosynthesis: A new function for an old cytochrome? (*with* Wastl, J, Navarro, J A, Bendall, D S, Hervas, M, Howe, C J, De la Rosa, M A), *Brief communication*, **424**, 33
Moller, P. *See under* Hjorth, J, **423**, 847
Möller, P. Nuclear physics: Into the fission valley (*with* Sierk, A J), *News and views*, **422**, 485
Møller, P R. Patagonian toothfish found off Greenland (*with* Nielsen, J G, Fossen, I), *Brief communication*, **421**, 599
Moller, S. A polymer/semiconductor write-once read-many-times memory (*with* Perlov, C, Jackson, W, Taussig, C, Forrest, S R), *Letter to Nature*, **426**, 166
Molnar, P. Geomorphology: Nature, nurture and landscape, *News and views*, **426**, 612
Monard, B. *See under* Uemura, M, **423**, 843
Mondragon, A. *See under* Krasilnikov, A S, **421**, 760
Money, N P. Genetics: Suicidal mushroom cells, *News and views*, **423**, 26
Moninger, T O. *See under* Vermeer, P D, **422**, 322
Monks, S A. *See under* Schadt, E E, **422**, 297
Monson, R K. *See under* Rosenstiel, T N, **421**, 256
Montague, P R. Decisions, Uncertainty, and the Brain: The Science of Neuroeconomics (*by* Glimcher, P W), *Book review*, **424**, 371
Montalvo, C. *See under* Sicardy, B, **424**, 168
Montcouquiol, M. Identification of *Vangl2* and *Scrb1* as planar polarity genes in mammals (*with* Rachel, R A, Lanford, P J, Copeland, N G, Jenkins, N A, Kelley, M W), *Letter to Nature*, **423**, 173
Montcourrier, P. *See under* de Joussineau, C, **426**, 555
Montefiori, D C. *See under* Altfeld, M, **423**, 461
Monteggia, L M. *See under* Sutton, M A, **421**, 70
Montes de Oca, R. *See under* Berman, D M, **425**, 846
Montgomerie, R. *See under* Griffith, S C, **422**, 833
Montgomery, D R. *See under* Aalto, R, **425**, 493
See under Reiners, P W, **426**, 645
Montminy, M. *See under* Herzig, S, **426**, 190
Montoya, M. *See under* Diebold, S S, **424**, 324
Moon, D S. *See under* Elliot, J L, **424**, 165
Moon, J. *See under* Sung, B-J, **425**, 98
Moon, R T. *See under* Takemaru, K-I, **422**, 905
Mooney, P. *See under* Wood, V, **421**, 94
Moorbath, S. *See under* Caro, G, **423**, 428, **424**, 974
Moore, D C. *See under* Pelli, D G, **423**, 752
Moore, G W K. *See under* Pickart, R S, **424**, 152
Moore, J. Stealth ship sets sail for a quiet life fishing for data, *News*, **423**, 7
Galileo gears up for swansong as crash-landing looms, *News*, **425**, 229
Moore, K. *See under* Wood, V, **421**, 94
Moore, K A. *See under* Lemischka, I R, **425**, 778
Moore, M J. *See under* Li, W, **426**, 450
Moore, M J F. *See under* Mungall, A J, **425**, 805
Moore, P D. Ecology: Shady deals with lichens, *News and views*, **421**, 591
Ecology: Roots of diversity, *News and views*, **424**, 26
Ecology: Palms in motion, *News and views*, **426**, 26
Moore, T. Selective gating of visual signals by microstimulation of frontal cortex (*with* Armstrong, K M), *Letter to Nature*, **421**, 370
Mora, C. Patterns and processes in reef fish diversity (*with* Chittaro, P M, Sale, P F, Kritzer, J P, Ludsin, S A), *Letter to Nature*, **421**, 933
Mora, J R. Selective imprinting of gut-homing T cells by Peyer's patch dendritic cells (*with* Bono, M R, Manjunath, N, Weninger, W, Cavanagh, L L, Rosemblatt, M, von Andrian, U H), *Letter to Nature*, **424**, 88
Morantte, I. *See under* Herzig, S, **426**, 190
Moras, D. *See under* Billas, I M L, **426**, 91
Morbidelli, A. Planetary science: Kuiper-belt interlopers (*with* Levison, H F), *News and views*, **422**, 30
See under Levison, H F, **426**, 419
Moreau, L. *See under* Van Laere, A-S, **425**, 832
Moreelli, A. *See under* Casolino, M, **422**, 680
Moreira, B C. Crystal: clear difference from glass, *Correspondence*, **423**, 917
Morel, F M M. *See under* Quigg, A, **425**, 291
Moreno, S. *See under* Wood, V, **421**, 94
See under Kamath, R S, **421**, 231
Morgan, D. *See under* DeCoursey, T E, **422**, 531
Morgan, D O. *See under* Ubersax, J A, **425**, 859
Morgan, E H. *See under* Chakrabarty, D, **424**, 42
See under Wijnands, R, **424**, 44
Morgan, H. *See under* Dunne, L, **424**, 285
Morgan, M. Why We See What We Do: An Empirical Theory of Vision (*by* Purves, D, Lotto, R B), *Book review*, **423**, 919
Morimoto, T. *See under* Nishimoto, S, **424**, 1071
Morin, P J. *See under* Fukami, T, **424**, 423
Morrell, N. *See under* Hamuy, M, **424**, 651
Morris, C. *See under* Borozdin, K N, **422**, 277
Morris, C A. *See under* Coureux, P-D, **425**, 419
Morris, D G. Loss of integrin αvβ6-mediated TGF-β activation causes Mmp12-dependent emphysema (*with* Huang, X, Kaminski, N, Wang, Y, Shapiro, S D, Dolganov, G, Glick, A, Sheppard, D), *Letter to Nature*, **422**, 169
Morris, J. Materials science: Mind the gap, *News and views*, **422**, 674
Materials science: Nanopartcles target tumours, *News and views*, **423**, 935
Morris, M. *See under* Gray, N S, **423**, 497
See under Sahai, R, **426**, 261
Morris, M C. Cks1-dependent proteasome recruitment and activation of *CDC20* transcription in budding yeast (*with* Kaiser, P, Rudyak, S, Baskerville, C, Watson, M H, Reed, S I), *Letter to Nature*, **423**, 1009
Morris, P. *See under* Karl, D M, **426**, 32
Morris, R G M. *See under* Day, M, **424**, 205
Morrison, D. *See under* Chapman, C R, **421**, 473
Morrison, S J. *See under* Park, I-K, **423**, 302
Morrison, W I. *See under* Donnelly, C A, **426**, 834
Mortensen, P. *See under* Andersen, J S, **426**, 570
Morterra, G. *See under* Serini, G, **424**, 391, **424**, 974
Moseley, M. Nothing new under the Sun?, *Correspondence*, **425**, 237
Moser, E I. Neurobiology: Interneurons take charge, *News and views*, **421**, 797
Moses, J I. *See under* Lellouch, E, **421**, 45
Moses, T Y. *See under* Eriksson, M, **423**, 293
Moshammer, R. *See under* Schulz, M, **422**, 48
Mosialos, G. *See under* Trompouki, E, **424**, 793
Mossinger, J C. Music: Sun Rings (*by* Riley, T), *Book review*, **422**, 565
Mossman, K L. Bomb dosimetry unlikely to change risk estimates, *Correspondence*, **425**, 237
Mostov, K. Just mix and patch (*with* Zegers, M), *News and views*, **422**, 267
Mottl, M J. *See under* Fisher, A T, **421**, 618
Mottler, S. *See under* Wood, V, **421**, 94
Motzo, C. *See under* Ueda, H, **423**, 506
Mougeot, F. The effect of aggressiveness on the population dynamics of a territorial bird (*with* Redpath, S M, Leckie, F, Hudson, P J), *Letter to Nature*, **421**, 737
Moule, S. *See under* Wood, V, **421**, 94
Mounkes, L C. A progeroid syndrome in mice is caused by defects in A-type lamins (*with* Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L), *Letter to Nature*, **423**, 298
Moussa, I. *See under* Chaimanee, Y, **422**, 61
MP. Targeted degradation of TOC1 by ZTL modulates circadian function in *Arabidopsis thaliana* (*with* Kim, W-Y, Somers, D E, Kay, S A), *Letter to Nature*, **426**, 567
Mrosovsky, N. The Biology of Sea Turtles, Volume II (*by* Lutz, P L, Musick, J A, Wyneken, J), *Book review*, **423**, 225
See under Hattar, S, **424**, 76
Muanga, J. *See under* Heilig, R, **421**, 601
Mudd, S. *See under* Hoebe, K, **424**, 743
Mudelsee, M. No upward trends in the occurrence of extreme floods in central Europe (*with* Borngen, M, Teztlaff, G, Grunewald, U), *Letter to Nature*, **425**, 166
Muhe, R. *See under* Edmonds, H N, **421**, 252
See under Michael, P J, **423**, 956
Muir, R D J. *See under* Smith, R J, **426**, 67
Mukai, T. *See under* Seki, K, **422**, 589
Muldoon, K. *See under* Kappelman, J, **426**, 549
Müller, A. *See under* Liu, T, **426**, 59
Müller, D. *See under* Smith, C M, **424**, 657
Müller, D C. Multi-colour organic light-emitting displays by solution processing (*with* Falcou, A, Reckefuss, N, Rojahn, M, Wiederhirn, V, Rudati, P, Frohne, H, Nuyken, O, Becker, H, Meerholz, K), *Letter to Nature*, **421**, 829
Muller, F. *See under* Vellai, T, **426**, 620
Müller, F. *See under* Matthias, S, **424**, 53
Müller, M. *See under* Tovar, J, **426**, 172
Muller, M M. Sustained division of the attentional spotlight (*with* Malinowski, P, Gruber, T, Hillyard, S A), *Letter to Nature*, **424**, 309
Corrigendum: Sustained division of the attentional spotlight (*with* Malinowski, P, Gruber, T, Hillyard, S A), *Letter to Nature*, **426**, 584
Muller, R. *See under* Duft, D, **421**, 128
Muller, W A. *See under* Mamdouh, Z, **421**, 748
Muller-Auer, S. *See under* Wood, V, **421**, 94
Müller-Hill, B. George Beadle, and Uncommon Farmer: The Emergence of Genetics in the 20th Century (*by* Berg, P, Singer, M), *Book review*, **426**, 122
Mullikin, J C. *See under* Mungall, A J, **425**, 805
Munari, U. *See under* Bond, H E, **422**, 405
Mungall, A J. The DNA sequence and analysis of human chromosome 6 (*with* Palmer, S A, Sims, S K, Edwards, C A *et al.*[1], *Article*, **425**, 805
Mungall, K. *See under* Wood, V, **421**, 94

---

[1] **Full author list:** Mungall, A J, Palmer, S A, Sims, S K, Edwards, C A, Ashurst, J L, Wilming, L, Jones, M C, Horton, R, Hunt, S E, Scott, C F, Gilbert, J G R, Clamp, M E, Bethel, G, Milne, S, Ainscough, R, Almeida, J P, Ambrose, K D, Andrews, T D, Ashwell, R I S, Babbage, A K, Bagguley, C L, Bailey, J, Banerjee, R, Barker, D J, Barlow, K F, Bates, K, Beare, D M, Beasley, H, Beasley, O, Bird, C P, Blakey, S, Bray-Allen, S, Brook, J, Brown, A J, Brown, J Y, Burford, D C, Burrill, W, Burton, J, Carder, C, Carter, N P, Chapman, J C, Clark, S Y, Clark, G, Clee, C M, Clegg, S, Cobley, V, Collier, R E, Collins, J E, Colman, L K, Corby, N R, Coville, G J, Culley, K M, Dhami, P, Davies, J, Dunn, M, Earthrowl, M E, Ellington, A E, Evans, K A, Faulkner, L, Francis, M D, Frankish, A, Frankland, J, French, L, Garner, P, Garnett, J, Ghori, M J R, Gilby, L M, Gillson, C J, Glithero, R J, Grafham, D V, Grant, M, Gribble, S, Griffiths, C, Hall, R, Halls, K S, Hammond, S, Harley, J L, Hart, E A, Heath, P D, Heathcott, R, Holmes, S J, Howden, P J, Howe, K L, Howell, G R, Huckle, E, Humphray, S J, Humphries, M D, Hunt, A R, Johnson, C M, Joy, A A, Kay, M, Keenan, S J, Kimberley, A M, King, A, Laird, G K, Langford, C, Lawlor, S, Leongamornlert, D A, Leversha, M, Lloyd, C R, Lloyd, D M, Loveland, J E, Lovell, J, Martin, S, Mashreghi-Mohammadi, M, Maslen, G L, Matthews, L, McCann, O T, McLaren, S J, McLay, K, McMurray, A, Moore, M J F, Mullikin, J C, Niblett, D, Nickerson, T, Novik, K L, Oliver, K, Overton-Larty, E K, Parker, A, Patel, R, Pearce, A V, Peck, A I, Phillimore, B, Phillips, S, Plumb, R W, Porter, K M, Ramsey, Y, Ranby, S A, Rice, C M, Ross, M T, Searle, S M, Sehra, H K, Sheridan, E, Skuce, C D, Smith, S, Smith, M, Spraggon, L, Squares, S L, Steward, C A, Sycamore, N, Tamlyn-Hall, G, Tester, J, Theaker, A J, Thomas, D W, Thorpe, A, Tracey, A, Tromans, A, Tubby, B, Wall, M, Wallis, J M, West, A P, White, S S, Whitehead, S L, Whittaker, H, Wild, A, Willey, D J, Wilmer, T E, Wood, J M, Wray, P W, Wyatt, J C, Young, L, Younger, R M, Bentley, D R, Coulson, A, Durbin, R, Hubbard, T, Sulston, J E, Rogers, J, Beck, S

Munger, J W. *See under* Hari, P, **422**, 134
Muno, M P. *See under* Chakrabarty, D, **424**, 42
Muñoz, E. *See under* Dalton, A B, **423**, 703
Munro, S. Cell biology: Earthworms and lipid couriers, *News and views*, **426**, 775
Murakami, K. *See under* Yamauchi, T, **423**, 762
Murakami, M. *See under* Tomita, M, **421**, 517
Murakami, Y. Magnetization distribution in the mixed-phase state of hole-doped manganites (*with* Yoo, J H, Shindo, D, Atou, T, Kikuchi, M), *Letter to Nature*, **423**, 965
Muralidharan, G. *See under* Pinnaduwage, L A, **425**, 474
Murcia, N S. *See under* Huangfu, D, **426**, 83
Murnane, M M. *See under* Paul, A, **421**, 51
Murphy, A S. *See under* Noh, B, **423**, 999
Murphy, C A. *See under* Cua, D J, **421**, 744
Murphy, C T. Genes that act downstream of DAF-16 to influence the lifespan of *Caenorhabditis elegans* (*with* McCarroll, S A, Bargmann, C I, Fraser, A, Kamath, R S, Ahringer, J, Li, H, Kenyon, C), *Article*, **424**, 277
Murphy, G. Time runs short for opponents of chemical-testing rules, *News*, **424**, 241
Lost for words, *News feature*, **425**, 340
Murphy, G L. The Big Book of Concepts, *Book review by* Bloom, P, **421**, 212
Murphy, J G. *See under* Selker, E U, **422**, 893
Murphy, K M. *See under* Kemper, C, **421**, 388
Murphy, L. *See under* Wood, V, **421**, 94
Murphy, R C. *See under* Liu, Y, **423**, 49
Murphy, T P. *See under* Radovan, H A, **425**, 51
Murray, C B. *See under* Redl, F X, **423**, 968
Murray, J. *See under* Hillier, L W, **424**, 157
Murray, R. *See under* Geisler, W, **423**, 696
Muselet, D. *See under* Heilig, R, **421**, 601
Mushens, R. *See under* White, A R, **422**, 80
Musick, K A. *See under* Lutz, P L, **423**, 225
Mustard, J F. *See under* Head, J W, **426**, 797
Muth, N. Gene flow might turn wimps into superweeds, *Correspondence*, **421**, 785
Mutka, H. *See under* Rüegg, Ch, **423**, 62
Muyldermans, S. *See under* Dumoulin, M, **424**, 783
Myasnikov, A G. *See under* Klaholz, B P, **421**, 90
Myers Jr, M G. *See under* Bates, S H, **421**, 856
Myers, M M. *See under* Caudy, A M, **425**, 411
Myers, M P. *See under* Salmeen, A, **423**, 769
Myers, R A. Rapid worldwide depletion of predatory fish communities (*with* Worm, B), *Letter to Nature*, **423**, 280
Myiona, P. *See under* Foreman, J, **422**, 442

Nabel, G J. *See under* Sullivan, N J, **424**, 681
See under Ganesh, L, **426**, 853
Nadeau, R M. *See under* Niu, F, **426**, 544
Nader, K. Neuroscience: Re-recording human memories, *News and views*, **425**, 571
Nadis, S. All together now, *News feature*, **421**, 780
Spoof Nobels take researchers for a ride, *News*, **425**, 550
Nagal, R. *See under* Yamauchi, T, **423**, 762
Nagata, S. *See under* Nishimoto, S, **424**, 1071
Nagatani, A. *See under* Matsushita, T, **424**, 571
Nahum, A. The Wright Brothers and the Invention of the Aerial Eagle (*by* Crouch, T, Jakab, P L), *Book review*, **426**, 765
Naito, M. *See under* Alff, L, **422**, 698
Nakagawa, T. *See under* Passafaro, M, **424**, 677
Nakai, H. *See under* Kay, M A, **424**, 251
Nakamura, H. *See under* Kile, B T, **425**, 81
Nakamura, K. *See under* Tomeoka, K, **423**, 60
Nakamura, Y. *See under* Pashkin, Yu A, **421**, 823
See under Radutoiu, S, **425**, 585
Nakanishi, S. *See under* Switzer, J A, **425**, 490
Nakano, H. Larval stages of a living sea lily (stalked crinoid echinoderm), (*with* Hibino, T, Oji, T, Hara, Y, Amemiya, S), *Letter to Nature*, **421**, 158
Nakano, M. *See under* Yu, Y, **425**, 145
Nakar, E. *See under* Granot, J, **426**, 138
Nakatake, M. *See under* Ishii, H, **426**, 540
Nakatani, Y. *See under* Shi, Y, **422**, 735
Nakatsuru, S. *See under* Sakaguchi, N, **426**, 454
Nakazaki, T. Mobilization of a transposon in the rice genome (*with* Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T), *Letter to Nature*, **421**, 170
Namatame, H. *See under* Ishii, H, **426**, 540
Namba, K. *See under* Yonekura, K, **424**, 643
Nambara, E. *See under* Kushiro, T, **422**, 122
Nanayama, F. Unusually large earthquakes inferred from tsunami deposits along the Kuril trench (*with* Satake, K, Furukawa, R, Shimokawa, K, Atwater, B F, Shigeno, K, Yamaki, S), *Letter to Nature*, **424**, 660
Naranjo, O. *See under* Sicardy, B, **424**, 168
Narasimba, R. India's mission to the Moon is worthwhile, *Correspondence*, **425**, 763
Narici, L. *See under* Casolino, M, **422**, 680
Narimura, T. *See under* Ishii, H, **426**, 540
Narjes, H. *See under* Lamarre, D, **426**, 186, **426**, 314
Nash, W. *See under* Skaletsky, H, **423**, 825
Nash, W E. *See under* Hillier, L W, **424**, 157
Natesh, R. Crystal structure of the human angiotensin-converting enzyme-lisinopril complex (*with* Schwager, S L U, Sturrock, E D, Acharya, K R), *Letter to Nature*, **421**, 551
Nathan, C. Immunology: Oxygen and the inflammatory cell, *News and views*, **422**, 675
Nattel, S. Human genetics: Lost anchors cost lives, *News and views*, **421**, 587
Natvig, D O. *See under* Galagan, J E, **422**, 859
Nau, J J. *See under* Tang, F, **422**, 87
Nault, F. *See under* Coull, J A M, **424**, 938
Navarro, J A. *See under* Molina-Heredia, F P, **424**, 33
Naylor, J. *See under* Galagan, J E, **422**, 859
Naylor, R. *See under* Tilman, D, **422**, 398
Ndong Obiang, S. *See under* Walsh, P D, **422**, 611
Nealey, P F. *See under* Kim, S O, **424**, 411
Neau, A. *See under* McCall, B J, **422**, 500
Neckers, L. Cancer: The rules of attraction (*with* Lee, Y-S), *News and views*, **425**, 357
Nedimovic, M R. Reflection signature of seismic and aseismic slip on the northern Cascadia subduction interface (*with* Hyndman, R D, Ramachandran, K, Spence, G D), *Letter to Nature*, **424**, 416
Neel, B G. *See under* Bates, S H, **421**, 856
See under Epstein, J A, **426**, 238
Nef, S. Testis determination requires insulin receptor family function in mice (*with* Verma-Kuvari, S, Merenmies, J, Vassalli, J-D, Efstratiadis, A, Accili, D, Parada, L F), *Letter to Nature*, **426**, 291
Neff, B D. Decisions about parental care in response to perceived paternity, *Letter to Nature*, **422**, 716
See under Sherman, P W, **425**, 136
Negishi, H. *See under* Takaoka, A, **424**, 516
Negishi, I. *See under* Sakaguchi, N, **426**, 454
Negishi, M. *See under* Katoh, H, **424**, 461
Neher, E. *See under* Sakaba, T, **424**, 775
Nelfeld, M A. *See under* Stenner, M D, **425**, 695
Nelson, C. Srb10/Cdk8 regulates yeast filamentous growth by phosphorylating the transcription factor Ste12 (*with* Goto, S, Lund, K, Hung, W, Sadowski, I), *Letter to Nature*, **421**, 187
Nelson, J O. *See under* Hillier, L W, **424**, 157
Nelson, K E. *See under* Read, T D, **423**, 81
Nelson, M A. *See under* Galagan, J E, **422**, 859
Nelson, N. *See under* Ben-Shem, A, **426**, 630
Nelson, W C. *See under* Read, T D, **423**, 81
Nelson, W J. Adaptation of core mechanisms to generate cell polarity, *Insight review article*, **422**, 766
Neri, R. *See under* Walter, F, **424**, 406
Nestler, E J. Obituary: Patricia S. Goldman-Rakic (1937–2003), *News and views*, **425**, 471
Nesvorny, D. *See under* Vokrouhlicky, D, **425**, 147
Neugebauer, J. *See under* Van de Walle, C G, **423**, 626
Neumaier, K. *See under* Custers, J, **424**, 524
Neumann, C. *See under* Knaut, H, **421**, 279
Neumann, C A. Essential role for the peroxiredoxin Prdx1 in erythrocyte antioxidant defence and tumour suppression (*with* Krause, D S, Carman, C V, Das, S, Dubey, D P, Abraham, J L, Bronson, R T, Fujiwara, Y, Orkin, S H, Van Etten, R A), *Letter to Nature*, **424**, 561
Neupert, W. *See under* Paschen, S A, **426**, 862
Neve, R L. *See under* Sutton, M A, **421**, 70
Newbigin, E. Sex and self-denial (*with* Vierstra, R D), *News and views*, **423**, 229
Newbold, J D. *See under* Battin, T J, **426**, 439
Newell, P T. Atmospheric physics: A new dawn for aurora, *News and views*, **424**, 734
Newman, E L. *See under* Ekstrom, A D, **425**, 184
Newman, V. *See under* Tootle, T L, **426**, 299
Newmark, P. Peer review and the rewards of open access, *Correspondence*, **422**, 661
Ney, A. Programmable computing with a single magnetoresistive element (*with* Pampuch, C, Koch, R, Ploog, K H), *Letter to Nature*, **425**, 485
Nezat, C A. *See under* Blum, J D, **423**, 824
Nezer, C. *See under* Van Laere, A-S, **425**, 832
Ng, P K L. *See under* Brook, B W, **424**, 420
Nguyen, C. *See under* Skaletsky, H, **423**, 825
See under Hillier, L W, **424**, 157
Nguyen, M. *See under* Van Laere, A-S, **425**, 832
Niblett, D. *See under* Wood, V, **421**, 94
See under Mungall, A J, **425**, 805
Nicastro, F. The far-ultraviolet signature of the 'missing' baryons in the Local Group of Galaxies (*with* Zezas, A, Elvis, M, Mathur, S, Flore, F, Cecchi-Pestellini, C, Burke, D, Drake, J, Casella, P), *Letter to Nature*, **421**, 719
Nichol, R C. *See under* Inada, N, **426**, 810
Nichols, P. Evolution's Captain: The Tragic Fate of Robert FitzRoy, the Man who Sailed Charles Darwin Around the World, *Book review by* Thomson, K, **425**, 18
Nicholson, L B. *See under* Kuchroo, V K, **422**, 27
Nickalls, R W D. Feynman put a personal spin on physics, *Correspondence*, **425**, 343
Nickerson, T. *See under* Mungall, A J, **425**, 805
Nicolson, T. *See under* Knaut, H, **421**, 279
Niehrs, C. A tale of tails, *News and views*, **424**, 375
Nield, J. *See under* Bibby, T S, **424**, 1051
Nielsen, C. *See under* Bourlat, S J, **424**, 925
Nielsen, C B. *See under* Galagan, J E, **422**, 859
Nielsen, C M. *See under* Thayer, S P, **425**, 851
Nielsen, J G. *See under* Møller, P R, **421**, 599
Nielsen, O B. *See under* Clausen, T, **421**, 689
Niemeler, M. Optimal transsaccadic integration explains distorted spatial perception (*with* Crawford, J D, Tweed, D B), *Letter to Nature*, **422**, 76
Niemeyer, C M. *See under* Jumaa, H, **423**, 452
Nierman, W C. *See under* Read, T D, **423**, 81
Niewoehner, W A. Manual dexterity in Neanderthals (*with* Bergstrom, A, Eichele, D, Zuroff, M, Clark, J T), *Brief communication*, **422**, 395
Nigam, S K. *See under* Li, X, **426**, 247
Nigg, E A. *See under* Andersen, J S, **426**, 570
Niikura, H. Probing molecular dynamics with attosecond resolution using correlated wave packet pairs (*with* Légaré, F, Hasbani, R, Ivanov, M Y, Villeneuve, D M, Corkum, P B), *Letter to Nature*, **421**, 826
Niimura, M. *See under* Takasugi, N, **422**, 438
Nijman, S M B. *See under* Brummelkamp, T R, **424**, 797
Niklas, K J. *See under* Enquist, B J, **425**, 741
Nikolaides, M G. Reply: Capillary attraction: Like-charged particles at liquid interfaces (*with* Bausch, A R, Hsu, M F, Dinsmore, A D, Brenner, M P, Gay, C, Weitz, D A), *Brief communication*, **424**, 1014
Nikolov, A D. *See under* Wasan, D T, **423**, 156
Nilius, B. *See under* Watanabe, H, **424**, 434
Nilsson, D-E. *See under* Dacke, M, **424**, 33
Nisbet, E. Snowball Earth, *Book review by* Walker, G, **422**, 812
Nishida, H. *See under* Nakazaki, T, **421**, 170
Palaeontology: Swimming sperm in an extinct Gondwanan plant (*with* Pigg, K B, Rigby, J F), *Brief communication*, **422**, 396
Nishijima, M. *See under* Hanada, K, **426**, 803
Nishikawa, S-I. *See under* Yamazaki, D, **424**, 452
Nishimoto, S. Nuclear cataract caused by a lack of DNA degradation in the mouse eye lens (*with* Kawane, K, Watanabe-Fukunaga, R, Fukuyama, H, Ohsawa, Y, Uchiyama, Y, Hashida, N, Ohguro, N, Tano, Y, Morimoto, T, Fukuda, Y, Nagata, S), *Letter to Nature*, **424**, 1071
Nishiyama, M. Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning (*with* Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-M, Hong, K), *Letter to Nature*, **423**, 990
Nithiyananthan, R. *See under* Ueda, H, **423**, 506
Nittrouer, C A. *See under* Aalto, R, **425**, 493
Niu, C. *See under* Duan, X, **425**, 274
See under Zhang, J, **425**, 836
Niu, F. Migration of seismic scatterers associated with the 1993 Parkfield aseismic transient event (*with* Silver, P G, Nadeau, R M, McEvilly, T V), *Letter to Nature*, **426**, 544
Niven, J E. The contribution of *Shaker* K^+ channels to the information capacity of *Drosophila* photoreceptors (*with* Vähäsöyrinki, M, Kauranen, M, Hardie, R C, Juusola, M, Weckström, M), *Letter to Nature*, **421**, 630
Noble, D. *See under* Blakemore, C, **421**, 314
Noda, T. *See under* Zhou, X J, **423**, 398
Noe, A. Brain-Wise: Studies in Neurophilosoph (*by* Smith Churchland, P), *Book review*, **423**, 805
Nogami, D. *See under* Uemura, M, **423**, 843
Noguchi, H. *See under* Katou, Y, **424**, 1078
Noguchi, Y. *See under* Itoh, Y, **422**, 173
Nogués, J. *See under* Skumryev, V, **423**, 850
Noh, B. Enhanced gravi- and phototropism in plant *mdr* mutants mislocalizing the auxin efflux protein PIN1 (*with* Bandyopadhyay, A, Peer, W A, Spalding, E P, Murphy, A S), *Letter to Nature*, **423**, 999
Nohara, K. *See under* Ohtake, F, **423**, 545
Nolan, D P. *See under* Vanhamme, L, **422**, 83
Nolan, M C. *See under* Campbell, B A, **426**, 137
Nolte, R J M. *See under* Thordarson, P, **424**, 915
Nomoto, K. *See under* Umeda, H, **422**, 871
Nomura, K. *See under* Mizuguchi, S, **423**, 443
Nomura, K H. *See under* Mizuguchi, S, **423**, 443
Nomura, T. *See under* Sakaguchi, N, **426**, 454
Nong, Y. Glycine binding primes NMDA receptor internalization (*with* Huang, Y-Q, Ju, W, Kalia, L V, Ahmadian, G, Wang, Y T, Salter, M W), *Letter to Nature*, **422**, 302
Noor, M A F. Evolutionary biology: Genes to make a new species, *News and views*, **423**, 699
Norberg, R A. *See under* Johansson, L C, **424**, 65
Nordin, R. *See under* Knaut, H, **421**, 279
Noren, N K. *See under* Speck, O, **421**, 83
Nori, F. *See under* D'Anna, G, **424**, 909
Norman, M D. *See under* Rapp, R P, **425**, 605
Norris, A. *See under* Lee, H-H, **425**, 507
Nosengo, N. Pollution fears put work at neutrino laboratory on hold, *News*, **423**, 675
European deal aims to attract Arab scientists, *News*, **423**, 906
Piglets add some colour to transgenic story, *News*, **424**, 604
Save our city!, *News feature*, **424**, 608
Biotechnology at the bar, *News feature*, **425**, 116
Nossal, G J V. The double helix and immunology, *Feature*, **421**, 440
Science as Autobiography: The Troubled Life of Niels Jerne (*by* Soderqvist, T), *Book review*, **424**, 253
Nöthlich, R. *See under* Hossfeld, U, **424**, 875
Nouraini, S. *See under* Guo, B, **423**, 456
Novak, J L. *See under* Tang, F, **422**, 87
Novas, F E. *See under* Apesteguia, S, **425**, 609
Novik, K L. *See under* Mungall, A J, **425**, 805
Novoselov, K S. Subatomic movements of a domain wall in the Peierls potential (*with* Geim, A K, Dubonos, S V, Hill, E W, Grigorieva, I V), *Letter to Nature*, **426**, 812
Novotny, O. *See under* McCall, B J, **422**, 500
Nowak, M A. *See under* Wei, X, **422**, 307
See under Frank, S A, **422**, 494, **423**, 197
Nowlan, W J. A scarlet letter or a red herring?, *Correspondence*, **421**, 313
Ntsame Effa, E. *See under* Walsh, P D, **422**, 611

Nudds, R L. *See under* Taylor, G K, **425**, 707

Nurse, P. *See under* Wood, V, **421**, 94

Understanding cells, *Concepts*, **424**, 883

Nusbaum, C. *See under* Galagan, J E, **422**, 859

Nusbaum, H C. *See under* Fenn, K M, **425**, 614

Nussbaum, R A. *See under* Raxworthy, C J, **426**, 837

Nusse, R. *See under* Reya, T, **423**, 409

See under Willert, K, **423**, 448

Nussinov, Z. *See under* van der Marel, D, **425**, 271

Nusslein-Volhard, C. *See under* Knaut, H, **421**, 279

Nutland, S. *See under* Ueda, H. **423**, 506

Nuyken, O. *See under* Müller, D C, **421**, 829

Nyberg, D. *See under* Pergams, O R W, **423**, 397

Nyltray, L. *See under* Li, Y, **424**, 341

Oakeley, E J. *See under* Staller, P, **425**, 307

Oberst, J. *See under* Spurný, P, **423**, 151

O'Brien, J L. Demonstration of an all-optical quantum controlled-NOT gate (*with* Pryde, G J, White, A G, Ralph, T C, Branning, D), *Letter to Nature*, **426**, 264

O'Brien, S. *See under* Redl, F X, **423**, 968

Ochani, M. *See under* Wang, H, **421**, 384

Ockwig, N W. *See under* Yaghi, O M, **423**, 705

O'Connor, D H. *See under* Altfeld, M, **423**, 461

Odell, C. *See under* Wood, V, **421**, 94

Odenthal, J. *See under* Knaut, H, **421**, 279

Odling-Smee, F J. Niche Construction: The Neglected Process in Evolution (*with* Laland, K N, Feldman, M W), *Book review by* Keller, L, **425**, 769

O'Donoghue, M. *See under* Rueness, E K, **425**, 69

O'Donoghue, P. *See under* Coltman, D W, **426**, 655

Oeckler, O. *See under* Ajami, D, **426**, 819

Offenhauser, N. *See under* Ceci, M, **426**, 579

Offringa, R. *See under* Friml, J, **426**, 147

Ofria, C. *See under* Lenski, R E, **423**, 139

Ogawa, H. *See under* Shi, Y, **422**, 735

Oghi, K A. *See under* Li, X, **426**, 247

Ogi, K. *See under* Itoh, Y, **422**, 173

Ogita, S. RNA interference: Producing decaffeinated coffee plants (*with* Uefuji, H, Yamaguchi, Y, Koizumi, N, Sano, H), *Brief communication*, **423**, 823

Ogletree, D F. *See under* Mitsul, T, **422**, 705

Oguri, M. *See under* Inada, N, **426**, 810

Ohara, P T. *See under* Jasmin, L, **424**, 316

Ohguro, N. *See under* Nishimoto, S, **424**, 1071

Ohsawa, Y. *See under* Nishimoto, S, **424**, 1071

Ohtake, F. Modulation of oestrogen receptor signalling by association with the activated dioxin receptor (*with* Takeyama, K-I, Matsumoto, T, Kitagawa, H, Yamamoto, Y, Nohara, K, Tohyama, C, Krust, A, Mimura, J, Chambon, P, Yanagisawa, J, Fujii-Kuriyama, Y, Kato, S), *Letter to Nature*, **423**, 545

Ohteki, T. *See under* Yamauchi, T, **423**, 762

Oikawa, H. *See under* Ose, T, **422**, 185

Oishi, M. *See under* Wada, S, **426**, 278

Ojha, T P. *See under* Burbank, D W, **426**, 652

Oji, T. *See under* Nakano, H, **421**, 158

Okada, Y. Processivity of the single headed kinesin KIF1A through biased binding to tubulin (*with* Higuchi, H, Hirokawa, N), *Letter to Nature*, **424**, 574

O'Keefe, J. *See under* Huxter, J, **425**, 828

O'Keeffe, M. *See under* Yaghi, O M, **423**, 705

Okochi, M. *See under* Ishii, D, **423**, 628

Oksanen, E. *See under* Percy, K E, **421**, 190

Okstad, O A. *See under* Read, T D, **423**, 81

Okubo, S. *See under* Itoh, Y, **422**, 173

Okumoto, Y. *See under* Nakazaki, T, **421**, 170

Olafsen, J S. *See under* Baxter, G W, **425**, 680

O'Laughlin, M D. *See under* Hillier, L W, **424**, 157

Olbryt, M. *See under* Madsen, E B, **425**, 637

Olby, R. Quiet debut for the double helix, *Feature*, **421**, 402

Inspiring Science: Jim Watson and the Age of DNA (*by* Inglis, J, Sambrook, J, Witkowski, J), *Book review*, **426**, 229

Oldfield, T E E. Field sports and conservation in the United Kingdom (*with* Smith, R J, Harrop, S R, Leader-Williams, N), *Letter to Nature*, **423**, 531

Oldroyd, D R. London's Leonardo: The Life and Work of Robert Hooke (*by* Bennett, J, Cooper, M, Hunter, M, Jardine, L), *Book review*, **423**, 384

The Man Who Found Time: James Hutton and the Discovery of the Earth's Antiquity (*by* Repcheck, J), *Book review*, **423**, 920

Ole-MoiYoi, O K. *See under* Galun, R, **425**, 142

Oliver, K. *See under* Wood, V, **421**, 94

See under Mungall, A J, **425**, 805

Oliver, S. Proteins and Proteomics: A Laboratory Manual (*by* Simpson, R J), *Book review*, **422**, 473

Oliver, S G. *See under* Delneri, D, **422**, 68

Olivier, N B. *See under* Zagotta, W N, **425**, 200

Olkin, C B. *See under* Elliot, J L, **424**, 165

Olley, J M. *See under* Bowler, J M, **421**, 837

Olsen, B R. *See under* Zelzer, E, **423**, 343

Olshansky, S J. Merchants of Immortality: Chasing the Dream of Human Life Extension (*by* Hall, S), *Book review*, **424**, 880

Olson, D P. *See under* Calvi, L M, **425**, 841

Olson, E J. *See under* Lilley, M D, **422**, 878

Olson, M V. *See under* Hillier, L W, **424**, 157

Olson, R. *See under* Zagotta, W N, **425**, 200

Olson, S. *See under* Wang, X, **422**, 897

Olson, S K. *See under* Hwang, H-Y, **423**, 439

Olsson, L. *See under* Hossfeld, U. **424**, 875

Ölveczky, B P. Segregation of object and background motion in the retina (*with* Baccus, S A, Meister, M), *Article*, **423**, 401

Olwa, K. *See under* Burgess, S A, **421**, 715

Omenetto, F G. *See under* Reeves, W H, **424**, 511

Omont, A. *See under* Walter, F, **424**, 406

Omukai, K. *See under* Schneider, R, **422**, 869

O'Neil, S. *See under* Wood, V, **421**, 94

O'Neill, P M. *See under* Eckstein-Ludwig, U, **424**, 957

Ong, C C. *See under* Opferman, J T, **426**, 671

Ong, N P. *See under* Wang, Y, **423**, 425

Ono, M. Insect signalling: Components of giant hornet alarm pheromone (*with* Terabe, H, Hori, H, Sasaki, M), *Brief communication*, **424**, 637

Ono, S. *See under* Balakirev, F F, **424**, 912

Onose, Y. *See under* Kang, H J, **423**, 522, **426**, 140

Oosterkamp, T H. *See under* de Jonge, N, **423**, 461

Opavska, J. *See under* Wu, L, **421**, 942

Opel, M. *See under* Bunge, M, **421**, 357

Opferman, J T. Development and maintenance of B and T lymphocytes requires antiapoptotic MCL-1 (*with* Letal, A, Beard, C, Sorcinelli, M D, Ong, C C, Korsmeyer, S J), *Letter to Nature*, **426**, 671

Oppo, D W. Palaeo-oceanography: Deepwater variability in the Holocene epoch (*with* McManus, J F, Cullen, J L), *Brief communication*, **422**, 277

correction: Deepwater variability in the Holocene epoch (*with* McManus, J F, Cullen, J L), *Brief communication*, **423**, 400

Oram, D E. *See under* Krol, M C, **421**, 131

Orbach, M J. *See under* Galagan, J E, **422**, 859

O'Reilly, C M. Climate changes decreases aquatic ecosystem productivity of Lake Tanganyika, Africa (*with* Alin, S R, Plisnier, P-D, Cohen, A S, McKee, B A), *Letter to Nature*, **424**, 766

Orenstein, J. *See under* McElroy, K, **422**, 592

Oriente, F. *See under* Puigserver, P, **423**, 550

O'Riordan, T. Biodiversity, Sustainability and Human Communities: Protecting Beyond the Protected (*with* Stoll-Kleemann, S), *Book review by* Child, B, **421**, 113

Orkin, S H. *See under* Mikkola, H K A, **421**, 547

See under Neumann, C A, **424**, 561

Orlova, E V. *See under* Klaholz, B P, **421**, 90

Orosz, L. *See under* Vellai, T, **426**, 620

Orozco, L A. *See under* Carmichael, H, **425**, 246

Orozco, T J. *See under* Schroeter, H, **426**, 787

Orr, H A. *See under* Presgraves, D C, **423**, 715

Orr Jr, F M. *See under* Kruger, C, **422**, 15

Ortega-Huerta, M A. *See under* Raxworthy, C J, **426**, 837

Osborne, C P. *See under* Royer, D L, **424**, 60

Ose, T. Insight into a natural Diels-Alder reaction from the structure of macrophomate synthase (*with* Watanabe, K, Mie, T, Honma, M, Watanabe, H, Yao, M, Oikawa, H, Tanaka, I), *Letter to Nature*, **422**, 185

O'Shea, E K. *See under* Huh, W-K, **425**, 686

See under Ghaemmaghami, S, **425**, 737

O'Shea, J J. *See under* Watford, W T, **421**, 706

Osip, D J. *See under* Elliot, J L, **424**, 165

Oskin, M. *See under* Burbank, D W, **426**, 652

Osmani, S A. *See under* Galagan, J E, **422**, 859

Osoegawa, K. *See under* Thomas, J W, **424**, 788

Osteloff, P L. *See under* Wellman, C H, **425**, 282

Osten, P. *See under* Seeburg, P H, **424**, 627

Österdahl, F. *See under* McCall, B J, **422**, 500

Osterhaus, A D M E. *See under* Fouchier, R A M, **423**, 240

Ostrin, E J. *See under* Rayapureddi, J P, **426**, 295

Ostrowski, M C. *See under* Wu, L, **421**, 942

Ostry, D J. *See under* Tremblay, S, **423**, 866

O'Toole, G A. *See under* Mah, T-F, **426**, 306

Otsubo, H. *See under* Ishii, H, **426**, 540

Otterlei, M. *See under* Aas, P A, **421**, 859

Ottino, J M. Is a picture worth 1000 words?, *Commentary*, **421**, 474

Discussion of the Method: Conducting the Engineer's Approach to Problem Solving (*by* Koen, B V), *Book review*, **425**, 18

Ottolini, L. *See under* Bonatti, E, **423**, 499

Ouahdi, R. *See under* Genty, D, **421**, 833

Oveisi, F. *See under* Fu, J, **425**, 91

Overbeek, R. *See under* Ivanova, N, **423**, 87

Overpeck, J T. *See under* Gupta, A K, **421**, 354

Overton-Larty, E K. *See under* Mungall, A J, **425**, 805

Oxtoby, N S. *See under* Theobold, J A, **424**, 1029

Ozbay, E. *See under* Cubukcu, E, **423**, 604

Ozcan, A S. *See under* Detavernier, C, **426**, 641

Ozdemir, S K. *See under* Yamamoto, T, **421**, 343

Ozersky, P. *See under* Skaletsky, H, **423**, 825

See under Hillier, L W, **424**, 157

Oztas, S. *See under* Heilig, R, **421**, 601

Paabo, S. The mosaic that is our genome, *Feature*, **421**, 409

Padrón, R. *See under* Sucre, M G, **422**, 257

Paerels, F. Astrophysics: Superficial resonance, *News and views*, **423**, 697

Pagano, M. *See under* Busino, L, **426**, 87

Page, D C. *See under* Skaletsky, H, **423**, 825

See under Rozen, S, **423**, 873

Pagel, M. Encyclopedia of Evolution, *Book review by* Peck, J, **421**, 895

Evolutionary biology: Polygamy and parenting, *News and views*, **424**, 23

Pak, E. *See under* Eriksson, M, **423**, 293

Pal, C. Genomic function: Rate of evolution and gene dispensability (*with* Papp, B, Hurst, L D), *Brief communication*, **421**, 496

See under Papp, B, **424**, 194

Palatnik, J F. Control of leaf morphogenesis by microRNAs (*with* Allen, E, Wu, X, Schommer, C, Schwab, R, Carrington, J C, Weigel, D), *Article*, **425**, 257

Palazzi, E. *See under* Hjorth, J, **423**, 847

See under Greiner, J, **426**, 157

Palazzo, A. Cell biology: Tubulin acetylation and cell motility (*with* Ackerman, B, Gundersen, G G), *Brief communication*, **421**, 230

Palczewski, K. *See under* Fotiadis, D, **421**, 127, **426**, 31

Palenik, B. The genome of a motile marine *Synechococcus* (*with* Brahamsha, B, Larimer, F W, Land, M, Hauser, L, Chain, P, Lamerdin, J, Regala, W, Allen, E E, McCarren, J, Paulsen, I, Dufresne, A, Partensky, F, Webb, E A, Waterbury, J), *Letter to Nature*, **424**, 1037

Palis, J. *See under* Davidson, A J, **425**, 300

Palm, E C. *See under* Radovan, H A, **425**, 51

Palmer, A R. Was visionary Seaborg from far-sighted stock?, *Correspondence*, **421**, 473

See under Eaves, A A, **425**, 146

Palmer, J. Chronobiology: Biological Timekeeping (*by* Dunlap, J C, Loros, J J, DeCoursey, P J), *Book review*, **425**, 346

Palmer, J D. *See under* Bergthorsson, U, **424**, 197

Palmer, R H. *See under* Englund, C, **425**, 512

Palmer, S A. *See under* Mungall, A J, **425**, 805

Pampuch, C. *See under* Ney, A, **425**, 485

Pan, A. *See under* Kappelman, J, **426**, 549

Pan, C-H. *See under* Liu, Y, **423**, 49

Pan, F. *See under* Han, A, **422**, 730

Pan, J-W. Experimental realization of freely propagating teleported qubits (*with* Gasparoni, S, Aspelmeyer, M, Jennewein, T, Zellinger, A), *Letter to Nature*, **421**, 721

Experimental entanglement purification of arbitrary unknown states (*with* Gasparoni, S, Ursin, R, Weihs, G, Zeilinger, A), *Letter to Nature*, **423**, 417

Pan, T. *See under* Krasilnikov, A S, **421**, 760

Panagia, N. *See under* Bond, H E, **422**, 405

Pancaldi, G. Volta: Science and Culture in the Age of Enlightenment, *Book review by* Fregonese, L, **424**, 999

Panda, S. Living with the AIDS Virus: The Epidemic and the Response in India (*with* Chatterjee, A, Abdul-Quader, A S), *Book review by* Priya, R, **423**, 685

Pandolfi, P P. *See under* Scaglioni, P P, **426**, 512

Pang, K. *See under* Wikramanayake, A H, **426**, 446

Pang, T. Filling the gap between knowing and doing, *Correspondence*, **426**, 383

Panizzi, P. *See under* Friedrich, R, **425**, 535

Panning, M. *See under* Gung, Y, **422**, 707

Paola, C. Floods of record, *News and views*, **425**, 459

Papa, S. *See under* Zazzeroni, F, **424**, 742

Papadoglannis, N A. *See under* Tzallas, P, **426**, 267

Papagelis, K. *See under* Arvanitidis, J, **425**, 599

Papatsenko, D. *See under* Clyde, D E, **426**, 849

Pape, T. *See under* Klaholz, B P, **421**, 90

Papp, B. *See under* Pal, C, **421**, 496

Dosage sensitivity and the evolution of gene families in yeast (*with* Pál, C, Hurst, L D), *Letter to Nature*, **424**, 194

Pappin, D. *See under* Goldberg, M, **421**, 952

Parada, L F. *See under* Nef, S, **426**, 291

Paranicas, C P. *See under* Mauk, B H, **421**, 920

Paraz, M. *See under* Ubersax, J A, **425**, 859

Parce, J W. *See under* Duan, X, **425**, 274

Pare, A. *See under* Clyde, D E, **426**, 849

Paré, D. *See under* Royer, S, **422**, 518

Parham, P. The unsung heroes, *Concepts*, **423**, 20

Parimi, P V. Photonic crystals: Imaging by flat lens using negative refraction (*with* Lu, W T, Vodo, P, Sridhar, S), *Brief communication*, **426**, 404

Parish, M M. Non-saturating magnetoresistance in heavily disordered semiconductors (*with* Littlewood, P B), *Letter to Nature*, **426**, 162

Parisi, G. *See under* Grigera, T S, **422**, 289

Park, C-S. *See under* Kim, J, **424**, 81

Park, D-Y. *See under* Kim, J, **424**, 81

Park, H-S. *See under* Greiner, J, **426**, 157

Park, I-K. Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells (*with* Ian, D, Kiel, M, Becker, M W, Pihalja, M, Weissman, I L, Morrison, S J, Clarke, M F), *Letter to Nature*, **423**, 302

Park, S-H. *See under* Zarrinpar, A, **426**, 676

Park, S-Y. *See under* Sung, B-J, **425**, 98

Parker, A. *See under* Mungall, A J, **425**, 805

Parker, A R. *See under* Berman, D M, **425**, 846

Structural colour: Opal analogue discovered in a weevil (*with* Welch, V L, Driver, D, Martini, N), *Brief communication*, **426**, 786

Parker, G A. Evolution of complex life cycles in helminth parasites (*with* Chubb, J C, Ball, M A, Roberts, G N), *Article*, **425**, 480

Parker, M G. *See under* Brosens, J J, **423**, 487

Parkhill, J. Genomics: Relative pathogenic values (*with* Berry, C), *News and views*, **423**, 23

Parlikar, B E W. *See under* Tootle, T L, **426**, 299

Parmesan, C. A globally coherent fingerprint of climate change impacts across natural systems (*with* Yohe, G), *Article*, **421**, 37

Parnham, D. *See under* Houston, F, **423**, 498

Parniske, M. Plant biology: Locks, keys and symbioses (*with* Downie, J A), *News and views*, **425**, 569

Parrenin, F. *See under* Watanabe, O, **422**, 509

Parson, E A. Protecting the Ozone Layer: Science and Strategy, *Book review by* Herrick, C, **422**, 664

Partensky, F. *See under* Palenik, B, **424**, 1037

See under Bibby, T S, **424**, 1051

Parthasarathi, A. A champion of new technologies, *Commentary*, 422, 17
Partridge, D. Computer's ability to verify proof is an illusion, *Correspondence*, **425**, 121
Partridge, L. Ageless Quest: One Scientist's Search for Genes That Prolong Youth (*by* Guarente, L), *Book review*, **421**, 789
Pasachoff, J M. *See under* Elliot, J L, **424**, 165
Pasca di Magliano, M. *See under* Thayer, S P, **425**, 851
Paschen, S A. Evolutionary conservation of biogenesis of β-barrel membrane proteins (*with* Waizenegger, T, Stan, T, Preuss, M, Cyrklaff, M, Hell, K, Rapaport, D, Neupert, W), *Letter to Nature*, **426**, 862
Pascual, J I. Selectivity in vibrationally mediated single-molecule chemistry (*with* Lorente, N, Song, Z, Conrad, H, Rust, H-P), *Letter to Nature*, **423**, 525
Pashkin, Yu A. Quantum oscillations in two coupled charge qubits (*with* Yamamoto, T, Astaflev, O, Nakamura, Y, Averin, D V, Tsai, J S), *Letter to Nature*, **421**, 823
Pasko, V P. Atmospheric physics: Electric jets, *News and views*, **423**, 927
Pasqualone, D. *See under* Chan, R C, **423**, 1002
Passafaro, M. Induction of dendritic spines by an extracellular domain of AMPA receptor subunit GluR2 (*with* Nakagawa, T, Sala, C, Sheng, M), *Letter to Nature*, **424**, 677
Pasterkamp, R J. Semaphorin 7A promotes axon outgrowth through integrins and MAPKs (*with* Peschon, J J, Spriggs, M K, Kolodkin, A L), *Article*, **424**, 398
Pasteur, N. *See under* Weill, M, **423**, 136, **425**, 366
Patapoutian, A. *See under* Viswanath, V, **423**, 822
Pateau, E. *See under* Heilig, R, **421**, 601
Patel, D J. *See under* Ye, K, **426**, 874
Patel, R. *See under* Mungall, A J, **425**, 805
Paterlini, M. History and science united to vindicate Perutz, *Correspondence*, **424**, 127
Paterson, A H. *See under* Bowers, J E, **422**, 433
Paterson, Y. *See under* Salzman, N H, **422**, 522
Patterson, C C. *See under* Ueda, H, **423**, 506
Patterson, D J. Progressing towards a biological names register, *Correspondence*, **422**, 661
Patterson, I A P. *See under* Jepson, P D, **425**, 575
Patterson, N. *See under* Kellis, M, **423**, 241
Paturiaux-Hanocq, F. *See under* Vanhamme, L, **422**, 83
Paubert, G. *See under* Lellouch, E, **421**, 45
Paul, A. Quasi-phase-matched generation of coherent extreme-ultraviolet light (*with* Bartels, R A, Tobey, R, Green, H, Welman, S, Christov, I P, Murnane, M M, Kapteyn, H C, Backus, S), *Letter to Nature*, **421**, 51
Paul, W E. Obituary: Charles A. Janeway Jr (1943–2003), (*with* Germain, R N), *News and views*, **423**, 237
Paulsen, I. *See under* Wood, V, **421**, 94
  See under Galagan, J E, **422**, 859
  See under Palenik, B, **424**, 1037
Paulsen, I T. *See under* Read, T D, **423**, 81
Pauly, D. In a Perfect Ocean (*with* Maclean, J), *Book review by* Shepherd, J, **425**, 125
Payne, F. *See under* Ueda, H, **423**, 506
Payne, R B. *See under* Sorenson, M D, **424**, 928
Payre, F. *See under* Sucena, E, **424**, 935
Pays, A. *See under* Vanhamme, L, **422**, 83
Pays, E. *See under* Vanhamme, L, **422**, 83
Pearce, A V. *See under* Mungall, A J, **425**, 805
Pearson, B J. Regulation of neuroblast competence in *Drosophila* (*with* Doe, C Q), *Letter to Nature*, **425**, 624
Pearson, D. *See under* Wood, V, **421**, 94
Pearson, H. Prospect of human cloning poses dilemma for journals, *News*, **421**, 199
  Developmental biology: Decoding stem cells' powers, *News and views*, **421**, 228
  Beyond the double helix, *News feature*, **421**, 310
  Cardiovascular biology: Chilled-out platelets, *News and views*, **421**, 331
  Developmental biology: Embryos gain foothold in the womb, *News and views*, **421**, 331
  Neurobiology: Stem cells stop dead, *News and views*, **421**, 597
  Neurobiology: Firing patterns add up, *News and views*, **421**, 804
  Mystery virus slow to yield its identity as patient numbers rise, *News*, **422**, 364
  Neurobiology: Spine conducts hip-hop, *News and views*, **422**, 393
  Spongiform encephalopathies: Propagating warped prions, *News and views*, **422**, 677
  Biotech firms pin hopes on defence, *News*, **422**, 790
  Malaria: Pump hijacker, *News and views*, **423**, 30
  In search of a miracle, *News feature*, **423**, 112
  Cell biology: Drug resistance lies within, *News and views*, **423**, 134
  Animal studies hint at staying power of SARS, *News*, **423**, 370
  Geneticists play the numbers game in vain, *News*, **423**, 576
  Neurobiology: Wiring the brain, *News and views*, **423**, 935
  Was the fuss overblown?, *News feature*, **424**, 121
  Microbiology: Aspirin bites at bugs, *News and views*, **424**, 507
  Cell biology: Channel taps magnesium, *News and views*, **424**, 630
  Developmental biology: Control stems from microRNAs, *News and views*, **424**, 898
  In the eye of the beholder, *News feature*, **424**, 990
  Evolutionary biology: Golgi traces revealed, *News and views*, **424**, 1011
  Chemists seek image overhaul, *News*, **425**, 227
  Molecular biology: Telomere stutters superfluous, *News and views*, **425**, 253
  Magnetic pioneers net Nobel for putting medicine in the picture, *News*, **425**, 547
  Physician launches public protest over medical Nobel, *News*, **425**, 648
  Neurobiology: Alzheimer's enzyme target, *News and views*, **425**, 678
  Physiology: Hotter equals smaller, *News and views*, **426**, 28
  Psychopysics: Who are you?, *News and views*, **426**, 136
  It's a scoop!, *News feature*, **426**, 222
  'Reverse genetics' could offer forward-thinking flu vaccine, *News*, **426**, 742
Pearson, P. In retrospect: An Investigation of the Principles of Knowledge and of the Progress of Reason, from Sense to Science and Philosophy (*by* Hutton, J), *Book review*, **425**, 665
Pearson, R. *See under* Thomas, J W, **424**, 788
Peat, N. *See under* Wood, V, **421**, 94
Pebay-Peyroula, E. Structure of mitochondrial ADP/ATP carrier in complex with carboxyatractyloside (*with* Dahout-Gonzalez, C, Kahn, R, Trézéguet, V, Lauquin, G J-M, Brandolin, G), *Article*, **426**, 39
Peck, A I. *See under* Mungall, A J, **425**, 805
Peck, J. Encyclopedia of Evolution (*by* Pagel, M), *Book review*, **421**, 895
Pedersen, H. *See under* Hjorth, J, **423**, 847
  See under Greiner, J, **426**, 157
Pedersen, K. *See under* Hjorth, J, **423**, 847
Pedersen, R. *See under* Jónsson, S, **424**, 179
Peer, W A. *See under* Noh, B, **423**, 999
Peet, M. *See under* Slabbekoorn, H, **424**, 267
Pei, Z-M. *See under* Han, S, **425**, 196
Peier, A M. *See under* Viswanath, V, **423**, 822
Peiris, M. *See under* Fouchier, R A M, **423**, 240
Pelkonen, J. *See under* Jumaa, H, **423**, 452
Pellas, P. *See under* Trieloff, M, **422**, 502
Pelletier, E. *See under* Heilig, R, **421**, 601
Pelli, D G. The remarkable inefficiency of word recognition (*with* Farell, B, Moore, D C), *Letter to Nature*, **423**, 752
Pellicer, A. *See under* Bivona, T G, **424**, 694
Pellock, B. *See under* Mah, T-F, **426**, 306
Pellouin, V. *See under* Heilig, R, **421**, 601
Pendry, J. Optics: Positively negative, *News and views*, **423**, 22
Penisson, J-M. *See under* Hytch, M J, **423**, 270
Penkett, S A. *See under* Krol, M C, **421**, 131
Pennington, H. When Food Kills: BSE, *E. coli* and Disaster Science, *Book review by* Rubery, E, **425**, 561
Pennock, R T. *See under* Lenski, R E, **423**, 139
Pennycook, S J. *See under* Abe, E, **421**, 347
Penprase, B E. *See under* Elliot, J L, **424**, 165
Pepin, C. *See under* Custers, J, **424**, 524
Pepin, K. *See under* Heilig, R, **421**, 601
  See under Skaletsky, H, **423**, 825
Pepin, K H. *See under* Hillier, L W, **424**, 157
Percec, V. Catalyst hunt accelerates, *News and views*, **424**, 135
Percival, W J. *See under* Stevens, J A, **425**, 264
Percy, K E. Corrigendum: Altered performance of forest pests under atmospheres enriched by CO_2 and O_3 (*with* Awmack, C S, Lindroth, R L, Kubiske, M E, Kopper, B J, Isebrands, J G, Pregitzer, K S, Hendrey, G R, Dickson, R E, Zak, D R, Oksanen, E, Sober, J, Harrington, R, Karnosky, D F), *Letter to Nature*, **421**, 190
Peretz, I. The Cognitive Neuroscience of Music (*with* Zatorre, R), *Book review by* Janata, P, **426**, 386
Pérez de Castro, I. *See under* Bivona, T G, **424**, 694
Pérez-Hoyos, S. *See under* Sánchez-Lavega, A, **423**, 623
Pérez-Mancera, P A. *See under* Sage, J, **424**, 223
Perfit, M R. Interaction of sea water and lava during submarine eruptions at mid-ocean ridges (*with* Cann, J R, Fornari, D J, Engels, J, Smith, D K, Ridley, W I, Edwards, M H), *Letter to Nature*, **426**, 62
Pergams, O R W. Rapid change in mouse mitochondrial DNA (*with* Barnes, W M, Nyberg, D), *Brief communication*, **423**, 397
  Unnatural coverage of Chernobyl tragedy, *Correspondence*, **425**, 763
Perillat, P J. *See under* Campbell, B A, **426**, 137
Perkins, D D. *See under* Galagan, J E, **422**, 859
Perlmann, T. *See under* Wang, Z, **423**, 555
Perlov, C. *See under* Moller, S, **426**, 166
Perret, B. *See under* Martinez, L O, **421**, 75
Perrier, G. *See under* Schaal, B, **424**, 68
Perrin, L. *See under* Mangeat, B, **424**, 99
Person, M J. *See under* Elliot, J L, **424**, 165
Persson, S E. *See under* Hamuy, M, **424**, 651
Pesce, E-R. *See under* Reinhardt, D, **426**, 255
Peschon, J J. *See under* Pasterkamp, R J, **424**, 398
Pescla, D. *See under* Portmann, O, **422**, 701
Petek, H. *See under* Hase, M, **426**, 51
Peter, M. *See under* Pintard, L, **425**, 311
Peters, J A. *See under* Kelley, S P, **424**, 321
Peters, W S. Separate achievements of the Humboldt brothers, *Correspondence*, **423**, 480
Petersen, J. *See under* Dalsgaard, T, **422**, 606
Peterson, A T. *See under* Raxworthy, C J, **426**, 837
Peterson, B A. *See under* Price, P A, **423**, 844
Peterson, D. Eating Apes, *Book review by* Cowlishaw, G, **424**, 131
Peterson, J D. *See under* Read, T D, **423**, 81
Peterson, L B. *See under* Ueda, H, **423**, 506
Peterson, S N. *See under* Read, T D, **423**, 81
Petersson, P. Spontaneous muscle twitches during sleep guide spinal self-organization (*with* Waldenstrom, A, Fahraeus, C, Schouenborg, J), *Letter to Nature*, **424**, 72
Petit, E. *See under* Heilig, R, **421**, 601
Petit, J-L. *See under* Heilig, R, **421**, 601
Petralia, R S. *See under* Kim, S J, **426**, 285
Petruk, S. *See under* Sedkov, Y, **426**, 78
Petrus, M J. *See under* Viswanath, V, **423**, 822
Petruska, J. *See under* Pham, P, **424**, 103
Pettifor, R A. *See under* Rands, S A, **423**, 432
Peumans, P. Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films (*with* Uchida, S, Forrest, S R), *Letter to Nature*, **425**, 158
Pezzuti, M. *See under* Knaut, H, **421**, 279
Pfanner, N. *See under* Wiedemann, N, **424**, 565
Pfannkuche, O. *See under* Witte, U, **424**, 763
Pfeffer, S R. *See under* Sivars, U, **425**, 856
Pfeffer, W T. Tidewater glaciers move at their own pace, *Correspondence*, **426**, 602
Pfeiffer, L. *See under* Lu, W, **423**, 422
Pham, P. Processive AID-catalysed cytosine deamination on single-stranded DNA simulates somatic hypermutation (*with* Bransteitter, R, Petruska, J, Goodman, M F), *Letter to Nature*, **424**, 103
Phan, T D. *See under* Frey, H U, **426**, 533
Phelps, K. *See under* Hillier, L W, **424**, 157
Phiel, C J. GSK-3α regulates production of Alzheimer's disease amyloid-β peptides (*with* Wilson, C A, Lee, V M-Y, Klein, P S), *Letter to Nature*, **423**, 435
Philips, A. *See under* Weill, M, **423**, 136, **425**, 366
Philips, M A. *See under* Theobold, J A, **424**, 1029
Philips, M R. *See under* Bivona, T G, **424**, 694
Phillimore, B. *See under* Mungall, A J, **425**, 805
Phillips, M M. *See under* Hamuy, M, **424**, 651
Phillips, P E M. Subsecond dopamine release promotes cocaine seeking (*with* Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M), *Letter to Nature*, **422**, 614
  Erratum: Subsecond dopamine release promotes cocaine seeking (*with* Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M), *Letter to Nature*, **423**, 461
Phillips, S. *See under* Drinkwater, M J, **423**, 519
  See under Mungall, A J, **425**, 805
Phipps Morgan, J. *See under* Duggen, S, **422**, 602
  See under Ranero, C R, **425**, 367
  Earth science: The ultraslow difference, *News and views*, **426**, 401
Phizicky, E. Protein analysis on a proteomic scale (*with* Bastiaens, P I H, Zhu, H, Snyder, M, Fields, S), *Insight review article*, **422**, 208
Piattelli-Palmarini, M. To put it simply, *Concepts*, **426**, 607
Pichler, B. *See under* Rose, C R, **426**, 74
Pickart, R S. Deep convection in the Irminger Sea forced by the Greenland tip jet (*with* Spall, M A, Ribergaard, M H, Moore, G W K, Milliff, R F), *Article*, **424**, 152
Pickett, G. Turbulence: Suddenly it's chaos, *News and views*, **424**, 1002
Pickford, A R. *See under* Schwarz-Linek, U, **423**, 177
Picot, D. *See under* Stroebel, D, **426**, 413
Picozza, P. *See under* Casolino, M, **422**, 680
Pielke Sr, R A. *See under* Marshall, C H, **426**, 29
Pierini, L M. *See under* Mamdouh, Z, **421**, 748
Pierou, V. *See under* Gabaix, X, **423**, 267
Pierrehumbert, R T. Risk and Reason: Safety, Law, and the Environment (*by* Sunstein, CR), *Book review*, **422**, 263
Pietronero, L. *See under* Garlaschelli, D, **423**, 165
Pigg, K B. *See under* Nishida, H, **422**, 396
Pihalja, M. *See under* Park, I-K, **423**, 302
Pilastro, A. *See under* Evans, J P, **421**, 360
Pilcher, H R. Neuroscience: Going to town, *News and views*, **422**, 132
  Developmental biology: Tools for single-cell analysis, *News and views*, **422**, 275
  Cell biology: Muscle mice, *News and views*, **422**, 393
  Cancer: Building blood vessels, *News and views*, **422**, 487
  Cancer: Cell invasions and oestrogen receptors, *News and views*, **422**, 829
  Cell biology: Torpedo smart gel, *News and views*, **423**, 30
  Sea gypsies see shells on the sea floor, *News and views*, **423**, 395
  HIV: Lucky mutation, *News and views*, **423**, 598
  Gene regulation: RNA switches, *News and views*, **423**, 702
  Neurobiology: Muscle molecule in myelin moderation, *News and views*, **423**, 820
  Cell biology: Flies get rhythm, *News and views*, **423**, 935
  Cancer: From breast to bone, *News and views*, **424**, 143
  Stem cells: Turning back the clock, *News and views*, **424**, 265
  Hearing: Spin the chicken, *News and views*, **424**, 385
  Biomaterials: Take a break, *News and views*, **424**, 507
  Neurobiology: Whisked to perfection by serotonin, *News and views*, **424**, 507
  Physiology: Salty secrets of the Sumatran stingray, *News and views*, **424**, 630
  Neuroscience: How to forget, *News and views*, **424**, 1011
  Immunology: Arresting asthma, *News and views*, **425**, 34
  The ups and downs of lithium, *News feature*, **425**, 118
  Genomics: DNA double agent, *News and views*, **425**, 143
  Developmental biology: Protein destruction from egg to embryo, *News and views*, **425**, 364
  Cancer: Further perils of passive smoking, *News and views*, **425**, 472
  Neuroscience: Transport delays, *News and views*, **425**, 573
  Reproduction: Being compatible, *News and views*, **425**, 678
  Tissue repair: Gel brought to heal in mice, *News and views*, **425**, 678
  Molecular biology: SUMO wrestles with genes, *News and views*, **426**, 402
  Cancer: Germ-cell suspect in the male, *News and views*, **426**, 514
  Vision: An eye for colour, *News and views*, **426**, 618

Pilegaard, K. *See under* Hari, P, **422**, 134
Pilka, E S. *See under* Schwarz-Linek, U, **423**, 177
Pilnick, A. Genetics and Society: An Introduction, *Book review by* Steinbock, B, **421**, 213
Pimm, S. Expiry dates, *News and views*, **426**, 235
Pinaud, E. *See under* Chaudhuri, J, **422**, 726
Pindor, B. *See under* Inada, N, **426**, 810
Pineau, T. *See under* Martinez, L O, **421**, 75
Pinnaduwage, L A. Explosives: A microsensor for trinitrotoluene vapour (*with* Gehl, A, Hedden, D L, Muralidharan, G, Thundat, T, Lareau, R T, Sulchek, T, Manning, L, Rogers, B, Jones, M, Adams, J D), *Brief communication*, **425**, 474
Pintard, L. The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase (*with* Willis, J H, Willems, A, Johnson, J-L F, Srayko, M, Kurz, T, Glaser, S, Mains, P E, Tyers, M, Bowerman, B, Peter, M), *Letter to Nature*, **425**, 311
Pinyopich, A. Assessing the redundancy of MADS-box genes during carpel and ovule development (*with* Ditta, G S, Savidge, B, Liljegren, S J, Baumann, E, Wisman, E, Yanofsky, M F), *Letter to Nature*, **424**, 85
Piomelli, D. *See under* Fu, J, **425**, 91
Piotrowski, J A. Earth science: Glaciers at work, *News and views*, **424**, 737
Piper, J W. *See under* Marshall, B T, **423**, 190
Piran, T. Astronomy: Glowing embers, *News and views*, **422**, 268
See under Granot, J, **426**, 138
Piro, L. The Restless Universe: Understanding X-ray Astronomy in the Age of *Chandra* and *Newton* (*by* Schlegel, E M), *Book review*, **421**, 21
Astronomy: Beacons in the distant cosmos, *News and views*, **426**, 397
Piškur, J. *See under* Langkjaer, R B, **421**, 848
Pitts, B. *See under* Mah, T-F, **426**, 306
Pizzari, T. Sophisticated sperm allocation in male fowl (*with* Cornwallis, C K, Levile, H, Jakobsson, S, Birkhead, T R), *Letter to Nature*, **426**, 70
Plamann, M. *See under* Galagan, J E, **422**, 859
Plan, E. *See under* Hjorth, J, **423**, 847
Planz, O. Specific cytotoxic T cells eliminate cells producing neutralizing antibodies (*with* Seiler, P, Hengartner, H, Zinkernagel, R M), *Letter to Nature*, **426**, 474
Plasterk, R H A. *See under* Caudy, A M, **425**, 411
See under Hurlstone, A F L, **425**, 633
See under Sijen, T, **426**, 310
Platt, T. Marine ecology: Spring algal bloom and larval fish survival (*with* Fuentes-Yaco, C, Frank, K T), *Brief communication*, **423**, 398
Platt, U. *See under* Bobrowski, N, **423**, 273
Plaut, R D. *See under* Read, T D, **423**, 81
Plerou, V. Econophysics: Two-phase behaviour of financial markets (*with* Gopikrishnan, P, Stanley, H E), *Brief communication*, **421**, 130
Plicher, H R. Cell biology: Tumour suppressors in the wrecking yard, *News and views*, **422**, 487
Plisnier, P-D. *See under* O'Reilly, C M, **424**, 766
Ploog, K H. *See under* Ney, A, **425**, 485
Plosky, B S. *See under* Ling, H, **424**, 1083
Pluchino, S. Injection of adult neurospheres induces recovery in a chronic model of multiple sclerosis (*with* Quattrini, A, Brambilla, E, Gritti, A, Salani, G, Dina, G, Galli, R, Del Carro, U, Amadio, S, Bergami, A, Furlan, R, Comi, G, Vescovi, A L, Martino, G), *Article*, **422**, 688
Plug, C. *See under* Ross, H, **421**, 695
Plumb, R W. *See under* Mungall, A J, **425**, 805
Pocknell, A M. *See under* Jepson, P D, **425**, 575
Podeli, E R. *See under* Lei, M, **426**, 198
Podgorski, M S. *See under* Walden, H, **422**, 330
Poelvoorde, P. *See under* Vanhamme, L, **422**, 83
Pohl, T M. *See under* Wood, V, **421**, 94
Poizot, P. *See under* Switzer, J A, **425**, 490
Polasky, S. *See under* Tilman, D, **422**, 398
Pollard, D. *See under* DeConto, R M, **421**, 245
Pollard, T. Cell Biology (*with* Earnshaw, W), *Book review by* Howard, J, **421**, 115
Pollard, T D. The cytoskeleton, cellular motility and the reductionist agenda, *Insight overview*, **422**, 741
Pomerantz, R J. *See under* Zhang, H, **424**, 94
HIV: Cross-talk and viral reservoirs, *News and views*, **424**, 136
Ponderato, N. *See under* Galli, C, **424**, 635, **425**, 680
Poo, M-m. *See under* Nishiyama, M, **423**, 990
Poole, P S. *See under* Lodwig, E M, **422**, 722
Pooley, G. *See under* Berger, E, **426**, 154
Pop, M. *See under* Read, T D, **423**, 81
Pope, M. The History of Reading (*by* Fischer, S R), *Book review*, **423**, 588
Popot, J-L. *See under* Stroebel, D, **426**, 413
Popov, A. *See under* Casolino, M, **422**, 680
Porras, L. *See under* Sicardy, B, **424**, 168
Porter, K M. *See under* Mungall, A J, **425**, 805
Porter, R. The Confinement of the Insane: International Perspectives, 1800-1965 (*with* Wright, D), *Book review by* Grob, G N, **426**, 230
Flesh in the Age of Reason, *Book review by* Fara, P, **426**, 497
Portmann, O. An inverse transition of magnetic domain patterns in ultrathin films (*with* Vaterlaus, A, Pescla, D), *Letter to Nature*, **422**, 701
Portnoy, M E. *See under* Hillier, L W, **424**, 157
See under Thomas, J W, **424**, 788
Portugal, K. *See under* Jumaa, H, **423**, 452
Poskanzer, K E. Synaptotagmin I is necessary for compensatory synaptic vesicle endocytosis in vivo (*with* Marek, K W, Sweeney, S T, Davis, G W), *Letter to Nature*, **426**, 559
Possenti, A. *See under* Burgay, M, **426**, 531
Post, A F. *See under* Rocap, G, **424**, 1042
Postila, V. *See under* Jumaa, H, **423**, 452
Potashkin, J. *See under* Wood, V, **421**, 94
Potosnak, M J. *See under* Rosenstiel, T N, **421**, 256
Potts, J R. *See under* Schwarz-Linek, U, **423**, 177
Poulin, G. *See under* Kamath, R S, **421**, 231
Pounds, J A. *See under* Root, T L, **421**, 57
Poupart, M-A. *See under* Lamarre, D, **426**, 186, **426**, 314
Pourquie, O. *See under* Dale, J K, **421**, 275
Powell, K. Seeds of doubt, *News feature*, **422**, 656
Low embryo count fuels US stem-cell debate, *News*, **423**, 213
Spare me the lecture, *News feature*, **425**, 234
Those who teach, learn, *News feature*, **425**, 236
Eat your veg, *News feature*, **426**, 378
Powell, M D. Reduced drag coefficient for high wind speeds in tropical cyclones (*with* Vickery, P J, Reinhold, T A), *Article*, **422**, 279
Power, A G. *See under* Mitchell, C E, **421**, 625
Prajapati, S. *See under* Yamamoto, Y, **423**, 655
Prasad, A B. *See under* Thomas, J W, **424**, 788
Prasad S. *See under* Wang, Z, **423**, 555
Prassides, K. *See under* Arvanitidis, J, **425**, 599
Pratt, R J. *See under* Galagan, J E, **422**, 859
Pratt-Sitaula, B. *See under* Burbank, D W, **426**, 652
Pravdo, S H. *See under* Fox, D W, **422**, 284
Prebble, J. Wandering in the Gardens of the Mind: Peter Mitchell and the Making of Glynn (*with* Weber, B), *Book review by* Slater, E C, **422**, 816
Prechtel, K. *See under* Hamm, C E, **421**, 841
Preece, R D. *See under* González, M M, **424**, 749
Pregitzer, K S. *See under* Percy, K E, **421**, 190
See under Loya, W M, **425**, 705
Premack, A. *See under* Premack, D, **425**, 17
Premack, D. Original Intelligence: Unlocking the Mystery of Who We Are (*with* Premack, A), *Book review by* Bryant, P, **425**, 17
Prenen, J. *See under* Watanabe, H, **424**, 434
Prescott, J R. *See under* Bowler, J M, **421**, 837
Prescott, S A. *See under* Coull, J A M, **424**, 938
Presgraves, D C. Adaptive evolution drives divergence of a hybrid inviability gene between two species of *Drosophila* (*with* Balagopalan, L, Abmayr, S M, Orr, H A), *Article*, **423**, 715
Preuss, M. *See under* Paschen, S A, **426**, 862
Prevo, B G. *See under* Velev, O D, **426**, 515
Price, G D. *See under* Vocadlo, L, **424**, 536
Price, J C. *See under* Long, J C, **421**, 922
Price, J T. *See under* Root, T L, **421**, 57
Price, P A. *See under* Fox, D W, **422**, 284
The bright optical afterglow of the nearby γ-ray burst of 29 March 2003 (*with* Fox, D W, Kulkarni, S R, Peterson, B A, Schmidt, B P, Soderberg, A M, Yost, S A, Berger, E, Djorgovski, S G, Frail, D A, Harrison, F A, Sari, R, Blain, A W, Chapman, S C), *Letter to Nature*, **423**, 844
See under Berger, E, **426**, 154
Primmer, C R. *See under* Koskinen, M T, **421**, 656
Primo, L. *See under* Serini, G, **424**, 391, **424**, 974
Princiotta, M F. *See under* Houde, M, **425**, 402
Priya, R. Combating with AIDS: Communication Strategies in Action (*by* Singhal, A, Rogers, E M), *Book review*, **423**, 685
Living with the AIDS Virus: The Epidemic and the Response in India (*by* Panda, S, Chatterjee, A, Abdul-Quader, A S), *Book review*, **423**, 685
Prober, D E. Applied physics: To catch a photon, *News and views*, **425**, 777
Prochaska, J X. The elemental abundance pattern in a galaxy at $z =$ 2.626 (*with* Howk, J C, Wolfe, A M), *Letter to Nature*, **423**, 57
Proedhorsky, W C. *See under* Borozdin, K N, **422**, 277
Provost, P. *See under* Lee, Y, **425**, 415
Prum, R O. Dinosaurs take to the air, *News and views*, **421**, 323
Pryde, G J. *See under* O'Brien, J L, **426**, 264
Ptashne, M. *See under* Johnson, A, **424**, 384
Pucciarelli, H M. *See under* González-José, R, **425**, 62
Puche, A C. *See under* Aungst, J L, **426**, 623
Puigserver, P. Insulin-regulated hepatic gluconeogenesis through FOXO1-PGC-1α interaction (*with* Rhee, J, Donovan, J, Walkey, C J, Yoon, J C, Oriente, F, Kitamura, Y, Altomonte, J, Dong, H, Accili, D, Spiegelman, B M), *Letter to Nature*, **423**, 550
Pulendran, B. *See under* Agrawal, A, **424**, 329
Purcell, S. *See under* Galagan, J E, **422**, 859
Purnelle, B. *See under* Wood, V, **421**, 94
Purton, J A. *See under* Brooker, R A, **423**, 738
Purton, M. Illustration: A fine body of work, *Book review*, **423**, 921
Vesalius's vessels, *Book review*, **424**, 373
Winging it, *Book review*, **426**, 605
Purves, D. Why We See What We Do: An Empirical Theory of Vision (*with* Lotto, R B), *Book review by* Morgan, M, **423**, 919
Purvis, A. *See under* Harvey, P H, **425**, 676
Pusch, G. *See under* Ivanova, N, **423**, 87
Puschel, A W. *See under* Serini, G, **424**, 391, **424**, 974
Putaux, J-L. *See under* Hytch, M J, **423**, 270
Putkonen, J. *See under* Burbank, D W, **426**, 652
Putman, E A. *See under* Harley, H E, **424**, 667
Pybus, O G. *See under* Walker, P R, **422**, 679
Pyenson, L. Measuring America: How an Untamed Wilderness Shaped the United States and Fulfiled the Promise of Democracy (*by* Linklater, A), *Book review*, **421**, 211
The Measure of All Things: The Seven-Year Odyssey and Hidden Error that Transformed the World (*by* Alder, K), *Book review*, **421**, 211
Pyle, J L. *See under* Aravanis, A M, **423**, 643
Pyne, L. *See under* Kappelman, J, **426**, 549
Pyntikova, T. *See under* Skaletsky, H, **423**, 825

Qi, Y P. *See under* Thayer, S P, **425**, 851
Qian, Q. *See under* Li, X, **422**, 618
Qian, Z. *See under* Ren, S-X, **422**, 888
Qiang, B-Q. *See under* Ren, S-X, **422**, 888
Qin, S. *See under* Heilig, R, **421**, 601
Qu, S. *See under* Elliot, J L, **424**, 165
Quall, M A. *See under* Wood, V, **421**, 94
Quang, P N. *See under* Ubersax, J A, **425**, 859
Quattrini, A. *See under* Pluchino, S, **422**, 688
Quayle, A. *See under* Danchin, A, **422**, 564
Quétier, F. *See under* Heilig, R, **421**, 601
Qui, D. *See under* Galagan, J E, **422**, 859
Quigg, A. The evolutionary inheritance of elemental stoichiometry in marine phytoplankton (*with* Finkel, Z V, Irwin, A J, Rosenthal, Y, Ho, T-Y, Reinfelder, J R, Schofield, O, Morel, F M M, Falkowski, P G), *Letter to Nature*, **425**, 291
Quinlan, M E. *See under* Forkey, J N, **422**, 399
Quinn, C. *See under* Agrawal, A, **424**, 329
Quinton, P M. *See under* Reddy, M M, **423**, 756
Quitterer, U. *See under* Lorenz, K, **426**, 574

Raab-Traub, N. *See under* Wang, X, **424**, 456
Raaijmakers, C E. *See under* De Deyn, G B, **422**, 711
Rabani, E. Drying-mediates self-assembly of nanoparticles (*with* Eichman, D R, Geissler, P L, Brus, L E), *Letter to Nature*, **426**, 271
Rabbinowitsch, E. *See under* Wood, V, **421**, 94
Rabinovich, A B. *See under* Thomson, R E, **424**, 545
Rabkin, S D. *See under* Jasmin, L, **424**, 316
Race, R E. How the Cows Turned Mad (*by* Schwartz, M, Schneider, E), *Book review*, **423**, 118
Rachel, R A. *See under* Montcouquiol, M, **423**, 173
Radford, A. *See under* Galagan, J E, **422**, 859
Radmark, O. *See under* Lee, Y, **425**, 415
Radosavljevic, M. *See under* Treiner, E, **422**, 164, 423, 1018
Radovan, H A. Magnetic enhancement of superconductivity from electron spin domains (*with* Fortune, N A, Murphy, T P, Hannahs, S T, Palm, E C, Tozer, S W, Hall, D), *Letter to Nature*, **425**, 51
Radune, D. *See under* Read, T D, **423**, 81
Radutolu, S. Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases (*with* Madsen, L H, Madsen, E B, Felle, H H, Umehara, Y, Gronlund, M, Sato, S, Nakamura, Y, Tabata, S, Sandal, N, Stougaard, J), *Article*, **425**, 585
See under Madsen, E B, **425**, 637
Raff, J W. Cell division: Genome maintenance, *News and views*, **423**, 493
Raff, M. *See under* Lumsden, A, **423**, 918
Ragan, M A. *See under* Charlebois, R L, **421**, 217
Rahman, D. *See under* Goldberg, M, **421**, 952
Rahmstorf, S. The current climate, *Concepts*, **421**, 699
Rahn, T. Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H_2 (*with* Eiler, J M, Boering, K A, Wennberg, P O, McCarthy, M C, Tyler, S, Schauffler, S, Donnelly, S, Atlas, E), *Letter to Nature*, **424**, 918
Raim, A. *See under* Wikelski, M, **423**, 704
Rainbow, D B. *See under* Ueda, H, **423**, 506
Rainey, K. *See under* Rainey, P B, **425**, 72
Rainey, P B. *See under* Buckling, A, **421**, 294
Evolution of cooperation and conflict in experimental bacterial populations (*with* Rainey, K), *Letter to Nature*, **425**, 72
Raivonen, M. *See under* Hari, P, **422**, 134
Rajandream, M-A. *See under* Wood, V, **421**, 94
Rajfur, Z. *See under* Huang, C, **424**, 219
Rakeman, A S. *See under* Huangfu, D, **426**, 83
Rakwalska, M. *See under* Madsen, E B, **425**, 637
Ralph, D C. *See under* Kiselev, S I, **425**, 380
Ralph, T C. *See under* O'Brien, J L, **426**, 264
Ralston, A. A Computer Called LEO: Lyons Teashops and the World's First Office Computer (*by* Ferry, G), *Book review*, **424**, 616
Rama Murthy, V. Experimental evidence that potassium is a substantial radioactive heat source in planetary cores (*with* van Westrenen, W, Fei, Y), *Letter to Nature*, **423**, 163
Ramachandran, K. *See under* Nedimovic, M R, **424**, 416
Ramamurthy, V. Synthetic chemistry: A perfect fit, *News and views*, **423**, 394
Rambaut, A. *See under* Walker, P R, **422**, 679
Ramirez, A P. Magic moments, *Concepts*, **421**, 483
Ramponi, G. *See under* Chiti, F, **424**, 805
Ramsey, Y. *See under* Mungall, A J, **425**, 805
Ramyar, K X. *See under* Cho, H-S, **421**, 756
Ranby, S A. *See under* Mungall, A J, **425**, 805
Rance, H E. *See under* Ueda, H, **423**, 506
Rancourt, J. *See under* Lamarre, D, **426**, 186, **426**, 314
Rands, S A. Spontaneous emergence of leaders and followers in foraging pairs (*with* Cowlishaw, G, Pettifor, R A, Rowcliffe, J M, Johnstone, R A), *Letter to Nature*, **423**, 432
Ranero, C R. Bending-related faulting and mantle serpentinization at the Middle America trench (*with* Phipps Morgan, J, McIntosh, K, Reichert, C), *Article*, **425**, 367
Ranganath, R M. Pre-genomics training hinders Indian biotech, *Correspondence*, **422**, 802

Ranger, A M. *See under* Danial, N N, **424**, 952
Rao, C V. Erratum: Control, exploitation and tolerance of intracellular noise (*with* Wolf, D M, Arkin, A P), *Letter to Nature*, **421**, 190
Rao, S G. Nanotube electronics: Large-scale assembly of carbon nanotubes (*with* Huang, L, Setyawan, W, Hong, S), *Brief communication*, **425**, 36
Rapaport, D. *See under* Paschen, S A, **426**, 862
Rapaport, M. *See under* Sicardy, B, **424**, 168
Rapp, R P. Growth of early continental crust by partial melting of eclogite (*with* Shimizu, N, Norman, M D), *Letter to Nature*, **425**, 605
Rasing, Th. *See under* Boamfa, M I, **421**, 149
Rasmussen, C. *See under* Galagan, J E, **422**, 859
Rasmussen, D T. *See under* Kappelman, J, **426**, 549
Ratcliffe, A. *See under* Heilig, R, **421**, 601
Rau, A. *See under* Greiner, J, **426**, 157
Rauch, H. *See under* Hasegawa, Y, **425**, 45
Raval, R. Chemistry: Mirrors in Flatland, *News and views*, **425**, 463
Raviv, U. Lubrication by charged polymers (*with* Glasson, S, Kampf, N, Gohy, J-F, Jerome, R, Klein, J), *Letter to Nature*, **425**, 163
Rawal, V H. *See under* Huang, Y, **424**, 146
Rawat, U B S. A cryo-electron microscopic study of ribosome-bound termination factor RF2 (*with* Zavlalov, A V, Sengupta, J, Valle, M, Grassucci, R A, Linde, J, Vestergaard, B, Ehrenberg, M, Frank, J), *Letter to Nature*, **421**, 87
Raxworthy, C J. Predicting distributions of known and unknown reptile species in Madagascar (*with* Martinez-Meyer, E, Horning, N, Nussbaum, R A, Schneider, G E, Ortega-Huerta, M A, Peterson, A T), *Letter to Nature*, **426**, 837
Rayapureddi, J P. Eyes absent represents a class of protein tyrosine phosphatase (*with* Kattamuri, C, Steinmetz, B D, Frankfort, B J, Ostrin, E J, Mardon, G, Hegde, R S), *Letter to Nature*, **426**, 295
Raymond, C. *See under* Hillier, L W, **424**, 157
Raymond, M. *See under* Weill, M, **423**, 136, **425**, 366
Raymond, N. *See under* Hammami, A, **424**, 635
Raynaud, E. *See under* Sicardy, B, **424**, 168
Rayner, J T. *See under* Elliot, J L, **424**, 165
Razal, J M. *See under* Dalton, A B, **423**, 703
Read, N D. *See under* Galagan, J E, **422**, 859
Read, T D. The genome sequence of *Bacillus anthracis* Ames and comparison to closely relates bacteria (*with* Peterson, S N, Tourasse, N, Baillie, L W, Paulsen, I T, Nelson, K E, Tettelin, H, Fouts, D E, Eisen, J A, Gill, S R, Holtzapple, E K, Okstad, O A, Helgason, E, Rilstone, J, Wu, M, Kolonay, J F, Beanan, M J, Dodson, R J, Binkac, L M, Gwinn, M, DeBoy, R T, Madpu, R, Daugherty, S C, Durkin, A S, Haft, D H, Nelson, W C, Peterson, J D, Pop, M, Khouri, H M, Radune, D, Benton, J L, Mahamoud, Y, Jiang, L, Hance, I R, Weldman, J F, Berry, K J, Plaut, R D, Wolf, A M, Watkins, K L, Nierman, W C, Hazen, A, Cline, R, Redmond, C, Thwaite, J E, White, O, Salzberg, S L, Thomason, B, Friedlander, A M, Koehler, T M, Hanna, P C, Kolsto, A-B, Fraser, C M), *Letter to Nature*, **423**, 81
Reali, E. *See under* Casolino, M, **422**, 680
Reaper, P M. *See under* d'Adda di Fagagna, F, **426**, 194
Reay, D S. Virtual solution to carbon cost of conferences, *Correspondence*, **424**, 251
Rebay, I. *See under* Tootle, T L, **426**, 299
Reboul, J. *See under* Xu, L, **425**, 316
Recalde, E. *See under* Sicardy, B, **424**, 168
Reckefuss, N. *See under* Müller, D C, **421**, 829
Reckermann, M. *See under* Kerner, M, **422**, 150
Reddy, M M. Control of dynamic CFTR selectivity by glutamate and ATP in epithelial cells (*with* Quinton, P M), *Letter to Nature*, **423**, 756
Redfield, C. *See under* Dumoulin, M, **424**, 783
Redl, F X. Three-dimensional binary superlattices of magnetic nanocrystals and semiconductor quantum dots (*with* Cho, K-S, Murray, C B, O'Brien, S), *Letter to Nature*, **423**, 968
Redmond, C. *See under* Read, T D, **423**, 81
Redpath, S M. *See under* Mougeot, F, **421**, 737
Reed, J C. *See under* Guo, B, **423**, 456
Reed, N. *See under* McLeod, P, **426**, 244
Reed, S I. *See under* Morris, M C, **423**, 1009
Rees, M. Our Final Hour: A Scientist's Warning: How Terror, Error, and Environmental Disaster Threatens Humankind's Future in the Century — On Earth and Beyond/Our Final Center: Will the Human Race Survive the Twenty-First Century?, *Book review by* Brownlee, D, **423**, 803
Connecting Quarks With the Cosmos: Eleven Science Questions for the New Century (*by* Committee on the Physics of the Universe, National Research Council of the National Academics), *Book review*, **425**, 239
Rees, W E. A blot on the land, *Concepts*, **421**, 898
Reese, K J. *See under* DeRenzo, C, **424**, 685
Reeves, W H. Transformation and control of ultra-short pulses in dispersion-engineered photonic crystal fibres (*with* Skryabin, D V, Biancalana, F, Knight, J C, Russell, P St J, Omenetto, F G, Efimov, A, Taylor, A J), *Article*, **424**, 511
Regal, C A. Creation of ultracold molecules from a Fermi gas of atoms (*with* Ticknor, C, Bohn, J L, Jin, D S), *Letter to Nature*, **424**, 47
See under Greiner, M, **426**, 537
Regala, W. *See under* Palenik, B, **424**, 1037
See under Rocap, G, **424**, 1042
Register, R A. Materials science: On the straight and narrow, *News and views*, **424**, 378
Regoes, R R. *See under* Antia, R, **426**, 658
Rehman, B. *See under* Galagan, J E, **422**, 859
Reichardt, L F. Neurobiology: Signals that make waves, *News and views*, **426**, 25
Reichert, C. *See under* Ranero, C R, **425**, 367
Reichhardt, T. NSF urged to take multidisciplinary tack on environment, *News*, **421**, 102
Pesticide firms ask to use human data to assess safety, *News*, **421**, 200
Up, up and away, *News feature*, **421**, 308
Columbia explosion may trigger fatal delays for space station, *News*, **421**, 561
Cosmologists look forward to clearer picture, *News*, **421**, 777
NASA pins hopes on nuclear-powered orbiter, *News*, **421**, 881
Astronomers urge NASA not to cut corners on Hubble successor, *News*, **422**, 3
Senator rebuffs academy over Arctic oil, *News*, **422**, 103
NASA intensifies probe into Columbia failure, *News*, **422**, 249
Infrared observatory prepares for lift-off, *News*, **422**, 549
NASA homes in on sites for Mars exploration, *News*, **422**, 653
Columbia inquiry homes in on faulty foam, *News*, **423**, 7
NASA aims high with orbital transport system, *News*, **423**, 470
The comeback kids, *News feature*, **423**, 477
Car-safety lobby on collision course with researchers, *News*, **423**, 675
Photos stop as Landsat 7 defies engineers, *News*, **423**, 907
US observation initiative calls for fresh view of Earth, *News*, **424**, 357
Playing with fire?, *News feature*, **424**, 367
Satellites aim to shake up quake predictions, *News*, **424**, 478
NASA under pressure to extend Hubble's life, *News*, **424**, 603
NASA braced for culture shock as Columbia inquiry reaches verdict, *News*, **424**, 863
Columbia inquiry prompts White House strategy review, *News*, **425**, 4
Flight veteran embraces NASA's science wing, *News*, **425**, 229
Bleak forecast for space weather, *News*, **425**, 649
US on sidelines as China prepares for satellite launch, *News*, **426**, 375
Unstoppable force, *News feature*, **426**, 380
NASA: Trawling through the wreckage, *News feature*, **426**, 754
Reid, P C. *See under* Beaugrand, G, **426**, 661
Reid, R J. *See under* Jepson, P D, **425**, 575
Reik, W. Gene expression: Silent clones speak up (*with* Dean, W), *News and views*, **423**, 390
Reimann, A. *See under* Scholtz, G, **421**, 806
Reimer, J. Chemistry: Internal combustion, *News and views*, **426**, 508
Reimer, O. *See under* Greiner, J, **426**, 157
Reiners, P W. Coupled spatial variations in precipitation (*with* Ehlers, T A, Mitchell, S G, Montgomery, D R), *Letter to Nature*, **426**, 645
Reinfelder, J R. *See under* Quigg, A, **425**, 291
Reinhardt, D. Regulation of phyllotaxis by polar auxin (*with* Pesce, E-R, Stieger, P, Mandel, T, Baltensperger, K, Bennett, M, Traas, J, Friml, J, Kuhlemeier, C), *Article*, **426**, 255
Reinhardt, R. *See under* Wood, V, **421**, 94
See under Kruger, M, **426**, 878
Reinhold, T A. *See under* Powell, M D, **422**, 279
Reinsch, K. *See under* Greiner, J, **426**, 157
Reis e Sousa, C. *See under* Diebold, S S, **424**, 324
Relethford, J H. Reflections on our Past: How Human History is Revealed in Our Genes, *Book review by* Cann, R, **423**, 117
Ren, S-X. Unique physiological and pathogenic features of *Leptospira interrogans* revealed by whole-genome sequencing (*with* Fu, G, Jiang, X-G, Zeng, R, Miao, Y-G, Xu, H, Zhang, Y-X, Xiong, H, Lu, G, Lu, L-F, Jiang, H-Q, Jia, J, Tu, Y-F, Jiang, J-X, Gu, W-Y, Zhang, Y-Q, Cai, Z, Sheng, H-H, Yin, H-F, Zhang, Y, Zhu, G-F, Wan, M, Huang, H-L, Qian, Z, Wang, S-Y, Ma, W, Yao, Z-J, Shen, Y, Qiang, B-Q, Xia, Q-C, Guo, X-K, Danchin, A, Saint Girons, I, Somerville, R L, Wen, Y-M, Shi, M-H, Xhen, Z, Xu, J-G, Zhao, G-P), *Letter to Nature*, **422**, 888
Renault, L. Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor (*with* Guibert, B, Cherfils, J), *Article*, **426**, 525
Renne, P R. *See under* Clark, J D, **423**, 747
See under Hart, W K, **426**, 622
Renner, S. *See under* Sicardy, B, **424**, 168
Repcheck, J. The Man Who Found Time: James Hutton and the Discovery of the Earth's Antiquity, *Book review by* Oldroyd, D R, **423**, 920
Reppert, S M. *See under* Etchegaray, J-P, **421**, 177
Repping, S. *See under* Skaletsky, H, **423**, 825
Requena, J. Venezuela: crisis puts major institutions at risk, *Correspondence*, **422**, 257
Reshetnikova, L. *See under* Li, Y, **424**, 341
Reth, M. *See under* Jumaa, H, **423**, 452
Reuland, M. *See under* Stevens, J A, **425**, 264
Revuelta, J L. *See under* Wood, V, **421**, 94
Reya, T. A role for Wnt signalling in self-renewal of haematopoietic stem cells (*with* Duncan, A W, Ailles, L, Domen, J, Scherer, D C, Willert, K, Hintz, L, Nusse, R, Weissman, I L), *Article*, **423**, 409
See under Willert, K, **423**, 448
Reynolds, J. Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II (*by* Surgenor, D M), *Book review*, **423**, 224
Reynolds, J C. *See under* Aebischer, N J, **423**, 400
Reynolds, J D. Wise fathers (*with* Sheldon, B C), *News and views*, **422**, 669
Reynolds, M F. *See under* Tang, X D, **425**, 531
Reznik, G. *See under* Ivanova, N, **423**, 87
Rhee, J. *See under* Puigserver, P, **423**, 550
Rhoads, J E. *See under* Hjorth, J, **423**, 847
Riazuelo, A. *See under* Luminet, J-P, **425**, 593
Ribergaard, M H. *See under* Pickart, R S, **424**, 152
Ricci, M. *See under* Casolino, M, **422**, 680
Rice, C M. *See under* Mungall, A J, **425**, 805
Virology: Fresh assault on hepatitis C, *News and views*, **426**, 129
Rice, M L. GreenSea's interest in fertilizing sea with iron, *Correspondence*, **421**, 786
Rich, P. The cost of living, *Concepts*, **421**, 583
Richards, G D. *See under* White, T D, **423**, 742
Richards, G T. *See under* Inada, N, **426**, 810
Richards, M A. *See under* Stegman, D R, **421**, 143
Richards, M P. Archaeology: Sharp shift in diet at onset of Neolithic (*with* Schulting, R J, Hedges, R E M), *Brief communication*, **425**, 366
Richardson, D C. *See under* Michel, P, **421**, 608
Richardson, D S. Avian behaviour: Altruism and infidelity among warblers, *Brief communication*, **422**, 580
Richardson, M K. Developmental biology: Hotspots for evolution (*with* Brakefield, P M), *News and views*, **424**, 894
Richmond, B. *See under* Kappelman, J, **426**, 549
Richmond, T J. The structure of DNA in the nucleosome core (*with* Davey, C A), *Article*, **423**, 145
Richter, K. *See under* Friedrich, R, **425**, 535
Richter, W. *See under* Faupl, P, **426**, 621
Ridley, M. Nature via Nurture: Genes, Experience and What Makes Us Human, *Book review by* Berry, A, **422**, 814
Darwin and Design: Does Evolution Have a Purpose? (*by* Ruse, M), *Book review*, **423**, 686
Ridley, R G. Malaria: To kill a parasite, *News and views*, **424**, 887
Ridley, W I. *See under* Perfit, M R, **426**, 62
Riebe, M. *See under* Guide, S, **421**, 48
See under Schmidt-Kaler, F, **422**, 408
Rieger, M. *See under* Wood, V, **421**, 94
Ries, C. *See under* Greiner, J, **426**, 157
Rigby, J F. *See under* Nishida, H, **422**, 396
Rigden, J S. Hydrogen: The Essential Element, *Book review* Kleppner, D, **422**, 119
Riikonen, P. *See under* Jumaa, H, **423**, 452
Rijnders, G. *See under* Hilgenkamp, H, **422**, 50
Riley, T. Music: Sun Rings, *Book review by* Mossinger, J C, **422**, 565
Rilstone, J. *See under* Read, T D, **423**, 81
Rimberg, A J. *See under* Lu, W, **423**, 422
Rinaldo, A. *See under* Banavar, J R, **421**, 713
Risch, N J. *See under* McIntire, J J, **425**, 576
Ritalahti, K M. *See under* He, J, **424**, 62
Ritchie, D A. *See under* Crook, R, **424**, 751
Ritenour, A. *See under* Chen, Y, **423**, 136
Ritson, D. Fuel for thought, *Commentary*, **421**, 575
Ritzmann, O. *See under* Jokat, W, **423**, 962
Rix, H-W. *See under* Inada, N, **426**, 810
Rizzoli, S O. All change at the synapse (*with* Betz, W J), *News and views*, **423**, 591
Rizzuto, D S. Military-funded research is not unethical (*with* Breznen, B, Greger, B), *Correspondence*, **424**, 369
Ro, S. *See under* Sung, B-J, **425**, 98
Robben, J. *See under* Wood, V, **421**, 94
Robbins, C M. *See under* Eriksson, M, **423**, 293
Robert, C. *See under* Heilig, R, **421**, 601
Robert, D. *See under* Heilig, R, **421**, 601
Roberts, A B. Medicine: Smoke signals for lung disease, *News and views*, **422**, 130
Roberts, D J. *See under* Thayer, S P, **425**, 851
Roberts, D L. Flightless birds: When did the dodo become extinct? (*with* Solow, A R), *Brief communication*, **426**, 245
Roberts, G N. *See under* Parker, G A, **425**, 480
Roberts, I N. *See under* Delneri, D, **422**, 68
Roberts, J D B. *See under* Klausberger, T, **421**, 844
Roberts Jr, L C. *See under* Elliot, J L, **424**, 165
Roberts, R G. *See under* Bowler, J M, **421**, 837
Robertson, J A. Reproductive cloning: don't rush to judgement, *Correspondence*, **424**, 14
Robineau, S. *See under* Bigay, J, **426**, 563
Robinson, C V. *See under* Dumoulin, M, **424**, 783
Robinson, J. *See under* Clack, J A, **425**, 65
Robinson, M L. *See under* Wu, L, **421**, 942
Rocap, G. Genome divergence in two *Prochlorococcus* ecotypes reflects oceanic niche differentiation (*with* Larimer, F W, Lamerdin, J, Malfatti, S, Chain, P, Ahigren, N A, Arellano, S, Coleman, M, Hauser, L, Hess, W R, Johnson, Z I, Land, M, Lindell, D, Post, A F, Regala, W, Shah, M, Shaw, S L, Steglich, C, Sullivan, M B, Ting, C S, Tolonen, A, Webb, E A, Zinser, E R, Chisholm, S W), *Letter to Nature*, **424**, 1042
Rochel, N. *See under* Billas, I M L, **426**, 91
Rochet, M. *See under* Wood, V, **421**, 94
Rock, K L. *See under* Shi, Y, **425**, 516
Rock, S. *See under* Skaletsky, H, **423**, 825
Rock, S M. *See under* Hillier, L W, **424**, 157
Rockenbach, B. *See under* Fehr, E, **422**, 137
Rockman, A. Art: A leap into the future, *Book review*, **423**, 19
Rockstroh, B. Does Stress Damage the Brain? Understanding Trauma-related Disorders from a Mind-Body Perspective (*by* Bremner, J D), *Book review*, **421**, 477
The End Of Stress As We Know It (*by* McEwen, B), *Book review*, **421**, 477
Rodan, G A. *See under* Harada, S, **423**, 349

Rodriguez de Fonseca, F. *See under* Fu, J, **425**, 91
Rodriguez, F. *See under* Jepson, P D, **425**, 575
Rodriguez Schettino, L. *See under* Losos, J B, **424**, 542
Roederer, M. *See under* Sullivan, N J, **424**, 681
Roehl, H. *See under* Knaut, H, **421**, 279
Roelof, E C. *See under* Mauk, B H, **421**, 920
See under Krimigis, S M, **426**, 45
Rogado, N S. *See under* Wang, Y, **423**, 425
Rogalla, H. *See under* Hilgenkamp, H, **422**, 50
Rogers, B. *See under* Pinnaduwage, L A, **425**, 474
Rogers, E M. *See under* Singhal, A, **423**, 685
Rogers, J. *See under* Ueda, H, **423**, 506
See under Mungall, A J, **425**, 805
Rogers, R R. Cannibalism in the Madagascan dinosaur *Majungatholus atopus* (*with* Krause, D W, Curry Rogers, K), *Letter to Nature*, **422**, 515
Rogers, T B. *See under* Mohler, P J, **421**, 634
Rohani, P. Ecological interference between fatal diseases (*with* Green, C J, Mantilla-Beniers, N B, Grenfell, B T), *Letters to Nature*, **422**, 865
Rohlfing, T. *See under* Skaletsky, H, **423**, 825
See under Hillier, L W, **424**, 157
Rohling, E J. *See under* Siddall, M, **423**, 853
Rohlmann, A. *See under* Missler, M, **423**, 939
Roitblat, H L. *See under* Harley, H E, **424**, 667
Rojahn, M. *See under* Müller, D C, **421**, 829
Rojas de Arias, A. *See under* Gaunt, M W, **421**, 936
Rojas, J F. *See under* Sánchez-Lavega, A, **423**, 623
Rokas, A. Genome-scale approaches to resolving incongruence in molecular phylogenies (*with* Williams, B L, King, N, Carroll, S B), *Article*, **425**, 798
Rokhlina, T. *See under* Vermeer, P D, **422**, 322
Rol, E. *See under* Hjorth, J, **423**, 847
Rolandi, G. *See under* Mietto, P, **422**, 133
Rolland, C. *See under* Martinez, L O, **421**, 75
Rolland-Lagan, A-G. Growth dynamics underlying petal shape and asymmetry (*with* Bangham, J A, Coen, E), *Letter to Nature*, **422**, 161
Rolls, M M. Cell polarity: From embryo to axon (*with* Doe, C Q), *News and views*, **421**, 905
Romalis, M V. *See under* Kominis, I K, **422**, 596
Romanowicz, B. *See under* Gung, Y, **422**, 707
Rombough, P. Development rate: Modelling developmental time and temperature, *Brief communication*, **424**, 268
Rong, J. *See under* Bowers, J E, **422**, 433
Ronning, F. *See under* Zhou, X J, **423**, 398
Ronningen, K S. *See under* Ueda, H, **423**, 506
Rook, L. Lowly Origin: Where, When, and Why Our Ancestors First Stood Up (*by* Kingdon, J), *Book review*, **423**, 804
Roos, C F. *See under* Schmidt-Kaler, F, **422**, 408
Root, T L. Fingerprints of global warming on wild animals and plants (*with* Price, J T, Hall, K R, Schneider, S H, Rosenzweig, C, Pounds, J A), *Letter to Nature*, **421**, 57
Roper, T J. *See under* Conradt, L, **421**, 155
Ecology: Badger cull culled, *News and views*, **426**, 782
Roques, F. *See under* Sicardy, B, **424**, 168
Rosales, A. *See under* González-José, R, **425**, 62
Rose, C R. Truncated TrkB-T1 mediates neurotrophin-evoked calcium signalling in glia cells (*with* Blum, R, Pichler, B, Lepier, A, Kafitz, K W, Konnerth, A), *Letter to Nature*, **426**, 74
Rose, D W. *See under* Li, X, **426**, 247
Rose, H. An ethical dilemma, *Commentary*, **425**, 123
Rose, M K. *See under* Mitsul, T, **422**, 705
Rosemblatt, M. *See under* Mora, J R, **424**, 88
Rosenband, T. *See under* Leibfried, D, **422**, 412
Rosenbaum, J. *See under* Frumkin, A, **425**, 169
Rosenbaum, T F. *See under* Ghosh, S, **425**, 48
Condensed-matter physics: The quest for imperfection, *News and views*, **426**, 135
Rosenberg, E S. *See under* Altfeld, M, **423**, 461
Rosenfeld, M G. *See under* Li, X, **426**, 247
Rosengarth, A. *See under* Fu, J, **425**, 91
Rosenquist, E. *See under* Vega, F E, **425**, 343
Rosenstiel, T N. Increased CO_2 uncouples growth from isoprene emission in an agriforest ecosystem (*with* Potosnak, M J, Griffin, K L, Fall, R, Monson, R K), *Letter to Nature*, **421**, 256
Rosenthal, Y. *See under* Quigg, A, **425**, 291
Rosenzweig, C. *See under* Root, T L, **421**, 57
Rosenzweig, P. *See under* Sicardy, B, **424**, 168
Rosing, M. *See under* Bizzarro, M, **421**, 931
Rosner, R. Solar physics: Heat exposure, *News and views*, **425**, 672
Rosol, T J. *See under* Wu, L, **421**, 942
Rospert, S. *See under* Wiedemann, N, **424**, 565
Ross, A J. *See under* Ansley, S J, **425**, 628
Ross, F M. *See under* Detavernier, C, **426**, 641
Ross, H. The Mystery of the Moon Illusion (*with* Plug, C), *Book review by* Hershenson, M, **421**, 695
Ross, H M. *See under* Jepson, P D, **425**, 575
Ross, J. *See under* Krekelberg, B, **424**, 674
See under Zhang, J, **425**, 836
Ross, M T. *See under* Mungall, A J, **425**, 805
Rossant, J. Genetics: A balancing act, *News and views*, **425**, 29
Rosswall, T. *See under* Lubchenco, J, **421**, 785
Roth M. *See under* Hamuy, M, **424**, 651
Rothblatt, J. *See under* Taub, J, **421**, 764
Rothenberg, M E. Cell biology: The hippo hypothesis (*with* Jan, Y-N), *News and views*, **425**, 469
Rothman, J H. *See under* Bloss, T A, **424**, 1066
Rothrock, C R. *See under* Garg, V, **424**, 443
Rottgering, H J A. *See under* Stevens, J A, **425**, 264
Rougvie, A E. *See under* Chan, R C, **423**, 1002
Roukema, B. *See under* Mayor, M, **426**, 386
Roukes, M L. *See under* Ming, X, **421**, 496
See under Worlock, J M, **421**, 802
Rousseau, R A. *See under* Kiers, E T, **425**, 78
Rowan, A E. *See under* Thordarson, P, **424**, 915
Rowcliffe, J M. *See under* Rands, S A, **423**, 432
Rowell, A. Don't worry (It's Safe to Eat). The True Story of GM Food, BSE and Foot and Mouth, *Book review by* Woolhouse, M, **425**, 454
Rowen, L. *See under* Heilig, R, **421**, 601
Roy, A. *See under* Heilig, R, **421**, 601
See under Galagan, J E, **422**, 859
Roy, C R. Professional secrets, *News and views*, **425**, 351
Roy, P. *See under* Diebold, S S, **424**, 324
Roy, R. *See under* Zeff, B W, **421**, 146
Royer, D L. Carbon loss by deciduous trees in a CO_2-rich ancient polar environment (*with* Osborne, C P, Beerling, D J), *Letter to Nature*, **424**, 60
Royer, S. Conservation of total synaptic weight through balanced synaptic depression and potentiation (*with* Paré, D), *Letter to Nature*, **422**, 518
Rozen, S. *See under* Skaletsky, H, **423**, 825
Abundant gene conversion between arms of palindromes in human and ape Y chromosomes (*with* Skaletsky, H, Marszalek, J D, Minx, P J, Cordum, H S, Waterston, R H, Wilson, R K, Page, D C), *Letter to Nature*, **423**, 873
Ruban, A V. Plants lacking the main light-harvesting complex retain photosystem II macro-organization (*with* Wentworth, M, Yakushevska, A E, Andersson, J, Lee, P J, Keegstra, W, Dekker, J P, Boekema, E J, Jansson, S, Horton, P), *Letter to Nature*, **421**, 648
Rubery, E. When Food Kills: BSE, *E. coli* and Disaster Science (*by* Pennington, H), *Book review*, **425**, 561
Rubie, D. *See under* Dubrovinsky, L, **422**, 58
Rubner, M. Synthetic sea shell, *News and views*, **423**, 925
Rudati, P. *See under* Müller, D C, **421**, 829
Rudd, S. *See under* Galagan, J E, **422**, 859
Rudolph, A. Military: brain machine could benefit millions, *Correspondence*, **424**, 369
Rudyak, S. *See under* Morris, M C, **423**, 1009
Rüegg, Ch. Bose–Einstein condensation of the triplet states in the magnetic insulator $TlCuCl_3$ (*with* Cavadini, N, Furrer, A, Güdel, H-U, Krämer, K, Mutka, H, Wildes, A, Habicht, K, Vorderwisch, P), *Letter to Nature*, **423**, 62
Rueness, E K. Ecological and genetic spatial structuring in the Canadian lynx (*with* Stenseth, N C, O'Donoghue, M, Boutin, S, Ellegren, H, Jakobsen, K S), *Letter to Nature*, **425**, 69
Ruff, T G. *See under* Schadt, E E, **422**, 297
Rugel, G. *See under* Straume, T, **424**, 539
Ruhm, W. *See under* Straume, T, **424**, 539
Rumbaugh, D M. Intelligence of Apes and Other Rational Beings (*with* Washburn, D A), *Book review by* Whiten, A, **425**, 454
Rumpker, G. Boundary-layer mantle flow under the Dead Sea transform fault inferred from seismic anisotropy (*with* Ryberg, T, Bock, G, Desert Seismology Group), *Letter to Nature*, **425**, 497
Rupke, L. *See under* Duggen, S, **422**, 602
Ruse, M. Darwin and Design: Does Evolution Have a Purpose?, *Book review* by Ridley, M, **423**, 686
Russel, W B. Condensed-matter physics: Tunable colloidal crystals, *News and views*, **421**, 490
Russell, A J. *See under* Dajee, M, **421**, 639
Russell, D W. *See under* Vassilopoulos, G, **422**, 901
Russell, P St J. *See under* Reeves, W H, **424**, 511
Rust, H-P. *See under* Pascual, J I, **423**, 525
Ruta, V. Functional analysis of an archaebacterial voltage-dependent K^+ channel (*with* Jiang, Y, Lee, A, Chen, J, MacKinnon, R), *Letter to Nature*, **422**, 180
See under Jiang, Y, **423**, 33, **423**, 42
Rutherford, A. Cinema: Return of the mutants, *Book review*, **423**, 119
Rutherford, K. *See under* Wood, V, **421**, 94
Rutter, S. *See under* Wood, V, **421**, 94
Ruvkun, G. *See under* Ashrafi, K, **421**, 268
Ruzette, A-V G. *See under* Gonzalez-Leon, J A, **426**, 424
Ryan, F. Darwin's Blind Spot: Evolution Beyond Natural Selection, *Book review* by Frank, S A, **421**, 579
Ryan, M P. Reply: Metallurgy: Stainless-steel corrosion and MnS inclusions (*with* Williams, D E, Chater, R J, Hutton, B M, McPhail, D S), *Brief communication*, **424**, 390
Ryan, M T. *See under* Wiedemann, N, **424**, 565
Ryan, T. *See under* Kappelman, J, **426**, 549
Ryberg, T. *See under* Rumpker, G, **425**, 497
Ryo, A. *See under* Liou, Y-C, **424**, 556
Ryu, S-W. *See under* Gonzalez-Leon, J A, **426**, 424
Ryu, W S. *See under* Fahrner, K A, **423**, 938

Saag, M S. *See under* Wei, X, **422**, 307, **423**, 197
Saavedra, H I. *See under* Wu, L, **421**, 942
Sachs, M S. *See under* Galagan, J E, **422**, 859
Sack, L. A Magic Web (*by* Leigh Jr, E G, Ziegler, C), *Book review*, **424**, 132
Sacks, D. *See under* Houde, M, **425**, 402
Sacks, O. Early work on elephant gait not to be forgotten, *Correspondence*, **423**, 221
Sacristan, M. *See under* Calzada, A, **426**, 584
Sadler, D W. *See under* Dore, J E, **424**, 754
Sadovnichii, V A. Obrazovaniye, Kotoroye My Mozhem Poteryat (The Education That We May Lose), *Book review by* Soyfer, V N, **421**, 693
Sadowski, I. *See under* Nelson, C, **421**, 187
Sage, J. Acute mutation of retinoblastoma gene function is sufficient for cell cycle re-entry (*with* Miller, A L, Pérez-Mancera, P A, Wysocki, J M, Jacks, T), *Letter to Nature*, **424**, 223
Sahai, R. A collimated, high-speed outflow from the dying star V Hydrae (*with* Morris, M, Knapp, G R, Young, K, Barnbaum, C), *Letter to Nature*, **426**, 261
Sahi, V. *See under* Duan, X, **425**, 274
Saibil, H. *See under* Chabre, M, **426**, 30
St George, R. *See under* Lamarre, D, **426**, 186, **426**, 314
Saint Girons, I. *See under* Ren, S-X, **422**, 888
St Johnston, D. *See under* Martin, S G, **421**, 379
Sainte-Marthe, L. *See under* Heilig, R, **421**, 601
Saito, Y. *See under* Seki, K, **422**, 589
Sakaba, T. Direct modulation of synaptic vesicle priming by $GABA_B$ receptor activation at a glutamatergic synapse (*with* Neher, E), *Letter to Nature*, **424**, 775
Sakaguchi, N. Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice (*with* Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S), *Letter to Nature*, **426**, 454
Sakaguchi, S. *See under* Sakaguchi, N, **426**, 454
Sakai, T. Fibronectin requirement in branching morphogenesis (*with* Larsen, M, Yamada, K M), *Letter to Nature*, **423**, 876
Sakakibara, H. *See under* Burgess, S A, **421**, 715
Sakamoto, S. *See under* Irifune, T, **421**, 599
Sakihama, T. *See under* Sakaguchi, N, **426**, 454
Sako, M. *See under* Fox, D W, **422**, 284
Sakurai, H. *See under* Takada, K, **422**, 53
Sala, C. *See under* Passafaro, M, **424**, 677
Sala, L A. *See under* Ceci, M, **426**, 579
Salani, G. *See under* Pluchino, S, **422**, 688
Salazar, M G. *See under* Wei, X, **422**, 307, **423**, 197
Salazar-Gonzalez, J F. *See under* Wei, X, **422**, 307, **423**, 197
Sale, P. Coral Reef Fishes: Diversity and Dynamics in a Complex Ecosystem, *Book review by* Bshary, R, **421**, 317
Sale, P F. *See under* Mora, C, **421**, 933
Sali, A. From words to literature in structural proteomics (*with* Glaeser, R, Earnest, T, Baumeister, W), *Insight review article*, **422**, 216
Salinas, P C. Neurobiology: Backchat at the synapse, *News and views*, **425**, 464
Salinger, A P. *See under* Kile, B T, **425**, 81
Salmeen, A. Redox regulation of protein tyrosine phosphate 1B involves a sulphenyl-amide intermediate (*with* Andersen, J N, Myers, M P, Meng, T-C, Hinks, J A, Tonks, N K, Barford, D), *Letter to Nature*, **423**, 769
Salmeron, M. *See under* Mitsul, T, **422**, 705
Salmon, E D. *See under* Canman, J C, **424**, 1074
Salomone, M. Head of Spanish lab network quits over lack of funds, *News*, **421**, 462
Salter, M G. Gating of the rapid shade-avoidance response by the circadian clock in plants (*with* Franklin, K A, Whitelam, G C), *Letter to Nature*, **426**, 680
Salter, M W. *See under* Nong, Y, **422**, 302
See under Tsuda, M, **424**, 778
Saltiel, A R. *See under* Inoue, M, **422**, 629
Salvador, J R. Zero thermal expansion in YbGaGe due to an electronic valence transition (*with* Guo, F, Hogan, T, Kanatzidis, M G), *Letter to Nature*, **425**, 702
Corrigendum: Zero thermal expansion in YbGaGe due to an electronic valence transition (*with* Guo, F, Hogan, T, Kanatzidis, M G), *Letter to Nature*, **426**, 584
Salvaterra, R. *See under* Schneider, R, **422**, 869
Salyk, C V. *See under* Elliot, J L, **424**, 165
Salzberg, S. Unrestricted free access works and must continue (*with* Birney, E, Eddy, S, White, O), *Correspondence*, **422**, 801
Salzberg, S L. *See under* Read, T D, **423**, 81
Genomics: Yeast rises again, *News and views*, **423**, 233
Salzman, N H. Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin (*with* Ghosh, D, Huttner, K M, Paterson, Y, Bevins, C L), *Letter to Nature*, **422**, 522
Samain, S. *See under* Heilig, R, **421**, 601
Sambles, J R. *See under* Vukusic, P, **424**, 852
Sambrook, J. *See under* Inglis, J, **426**, 229
Samson, G. *See under* Heilig, R, **421**, 601
Samson, L D. *See under* Begley, T J, **421**, 795
Sanchez, E. *See under* Calzada, A, **426**, 584
Sánchez, I. Pivotal role of oligomerization in expanded polyglutamine neurodegenerative disorders (*with* Mahike, C, Yuan, J), *Letter to Nature*, **421**, 373
Sanchez, L B. *See under* Tovar, J, **426**, 172
Sanchez, M. *See under* Wood, V, **421**, 94
Sanchez-Diaz, A. *See under* Kanemaki, M, **423**, 720
Sánchez-Lavega, A. A strong decrease in Saturn's equatorial jet at cloud level (*with* Pérez-Hoyos, S, Rojas, J F, Hueso, R, French, R G), *Letter to Nature*, **423**, 623
Sand, M. *See under* Witte, U, **424**, 763
Sandal, N. *See under* Radutoiu, S, **425**, 585
See under Madsen, E B, **425**, 637
Sandercock, B K. *See under* Blomqvist, D, **422**, 833
Sandermann Jr, H. Flawed science underlies laws on transgenic crops, *Correspondence*, **424**, 613
Sanders, W J. *See under* Kappelman, J, **426**, 549
Sandidge, J S. Arachnology: Scavenging by brown recluse spiders, *Brief communication*, **426**, 30
Sanes, J R. *See under* Lumsden, A, **423**, 918
See under Buttelli, M, **424**, 430

Sanford, T B. *See under* Gregg, M C, **422**, 513
Sankey, J C. *See under* Kiselev, S I, **425**, 380
Sannita, W G. *See under* Casolino, M, **422**, 680
Sano, H. *See under* Ogita, S, **423**, 823
Santiago, F E. *See under* Zhong, W, **423**, 885
Saperstein, D A. *See under* Fotiadis, D, **421**, 127, **426**, 31
Sarachik, M P. Strict guidelines make it clear who's responsible, *Correspondence*, **421**, 111
Sardi, M. *See under* González-José, R, **425**, 62
Saretzki, G. *See under* d'Adda di Fagagna, F, **426**, 194
Sari, R. *See under* Fox, D W, **422**, 284
  See under Price, P A, **423**, 844
  See under Berger, E, **426**, 154
  See under Greiner, J, **426**, 157
Sarkissian, J M. *See under* Burgay, M, **426**, 531
Sarma, K M. *See under* Anderson, S O, **422**, 664
Sasagawa, T. *See under* Zhou, X J, **423**, 398
Sasaki, M. *See under* Ono, M, **424**, 637
Sasaki, S. *See under* Souma, S, **423**, 65
  See under Takaoka, A, **424**, 516
Sasaki, T. *See under* Takada, K, **422**, 53
Sasse, J. *See under* Dumoulin, M, **424**, 783
Sasselov, D D. *See under* Konacki, M, **421**, 507
Satake, K. *See under* Nanayama, F, **424**, 660
Sato, M. *See under* Su, H T, **423**, 974
Sato, S. *See under* Mayor, U, **421**, 863
  See under Radutoiu, S, **425**, 585
  See under Madsen, E B, **425**, 637
Sato, T. *See under* Souma, S, **423**, 65
Sato, Y. *See under* Kawai, H, **421**, 287
Satoh, R. *See under* Itoh, Y, **422**, 173
Satterthwait, A C. *See under* Guo, B, **423**, 456
Sauer, M. *See under* Friml, J, **426**, 147
Saul, J. Earth science: Mantle deformation or processing artefact? (*with* Vinnik, L), *Brief communication*, **422**, 136
Saunders, A. *See under* Borozdin, K N, **422**, 277
Saunders, D. *See under* Wood, V, **421**, 94
Saunders, K. The earliest recorded plant virus disease (*with* Bedford, I D, Yahara, T, Stanley, J), *Brief communication*, **422**, 831
Saunders, T L. *See under* Jones, J M, **425**, 721
Saurin, W. *See under* Heilig, R, **421**, 601
Saurya, S. *See under* McQuibban, G A, **423**, 537
Sauvageau, G. *See under* Lessard, J, **423**, 255
Savage, D A. *See under* Ueda, H, **423**, 506
Savage, V M. *See under* West, G B, **421**, 713
  See under Gillooly, J F, **424**, 270
Saveanu, L. *See under* Guermonprez, P, **425**, 397
Saveliev, A. DNA triplet repeats mediate heterochromatin-protein-1-sensitive variegated gene silencing (*with* Everett, C, Sharpe, T, Webster, Z, Festenstein, R), *Letter to Nature*, **422**, 909
Savidge, B. *See under* Pinyopich, A, **424**, 85
Sawada, J-I. *See under* Shi, Y, **422**, 735
Sawada, K. *See under* Taneike, M, **424**, 294
Sawin, K E. *See under* Snaith, H A, **423**, 647
Saykally, R J. *See under* McCall, B J, **422**, 500
Scadden, D T. *See under* Calvi, L M, **425**, 841
Scaglioni, P P. Medicine: Taking apart a cancer protein (*with* Pandolfi, P P), *News and views*, **426**, 512
Scarpelli, C. *See under* Heilig, R, **421**, 601
Schaak, R E. Superconductivity phase diagram of $Na_xCoO_2.1.3H_2O$ (*with* Kilmczuk, T, Foo, M L, Cava, R J), *Letter to Nature*, **424**, 527
Schaal, B. Chemical and behavioural characterization of the rabbit mammary pheromone (*with* Coureaud, G, Langlois, D, Ginies, C, Semon, E, Perrier, G), *Letter to Nature*, **424**, 68
Schad, C A. *See under* Sutton, M A, **421**, 70
Schadt, E E. Genetics of gene expression surveyed in maize, mouse and man (*with* Monks, S A, Drake, T A, Lusis, A J, Che, N, Colinayo, V, Ruff, T G, Milligan, S B, Lamb, J R, Cavet, G, Linsley, P S, Mao, M, Stoughton, R B, Friend, S H), *Letter to Nature*, **422**, 297
Schaefer, J A. *See under* Eremtchenko, M, **425**, 602
Schafer, M. *See under* Wood, V, **421**, 94
Schaller, M D. *See under* Huang, C, **424**, 219
Schaller, M E. *See under* Hillier, L W, **424**, 157
Scharfe, C. *See under* Gu, Z, **421**, 63
Schatz, G C. *See under* Jin, R, **425**, 487
Schauffler, S. *See under* Rahn, T, **424**, 918
Scheeren, H A. *See under* Krol, M C, **421**, 131
Schefuß, E. African vegetation controlled by tropical sea surface temperatures in the mid-Pleistocene (*with* Schouten, S, Jansen, J H F, Damste, J S S), *Letter to Nature*, **422**, 418
Schemske, D. *See under* Bradshaw, H D, **426**, 176
Schenker, O. *See under* Schön, J H, **422**, 92
Scherer, B. *See under* Howitz, K T, **425**, 191
Scherer, D C. *See under* Reya, T, **423**, 409
Schiermeier, Q. Insurers left reeling by disaster year, *News*, **421**, 99
  The oresmen, *News feature*, **421**, 109
  Europe seeks single defence research agency, *News*, **421**, 465
  Poles apart, or together with Europe?, *News feature*, **421**, 471
  Fading support ends Europe's dreams of neutron supremacy, *News*, **421**, 563
  Nobel laureate slams misconduct smear, *News*, **421**, 773
  Climate panel to seize political hot potatoes, *News*, **421**, 879
  Avalanche!, *News feature*, **421**, 887
  Max Planck plans double blow to chemistry, *News*, **422**, 105
  NATO reform promises more publicity for less science, *News*, **422**, 248
  Europe told to unite on spy satellites, *News*, **422**, 361
  Aid workers fear impending disaster in Basra (*with* Kramer, T), *News*, **422**, 459
  Polish science academy prepares for radical overhaul, *News*, **422**, 653
  Neutron source powers ahead with weapons-grade uranium, *News*, **423**, 5
  Europe dithers as Canada cuts cod fishing, *News*, **423**, 212
  Deep-sea sub aims to get to the bottom of a muddy issue, *News*, **423**, 469
  Gas leak!, *News feature*, **423**, 681
  German reform plan arouses fear for autonomy, *News*, **423**, 790
  Researchers rattled as Kyoto Protocol hangs in the balance, *News*, **423**, 792
  Studies assess risks of drugs in water cycle, *News*, **424**, 5
  Arctic rockets give glimpse of the atmosphere's top layers, *News*, **424**, 243
  African project seeks model solution to water shortage, *News*, **424**, 359
  Setting the record straight, *News feature*, **424**, 482
  Alpine thaw breaks ice over permafrost's role, *News*, **424**, 712
  Water worlds make a splash as the best hope for alien life, *News*, **424**, 866
  Summer in Svalbard, *News feature*, **424**, 992
  Britain set to pull the plug on nuclear-fuel reprocessing, *News*, **425**, 7
  Analysis pours cold water on flood theory, *News*, **425**, 111
  Planck makes permanent posts, *News*, **425**, 441
  Letters reveal scale of German agency's Nazi corruption, *News*, **425**, 650
  Open access wins German support, *News*, **425**, 752
  Fish farms' threat to salmon stocks exposed, *News*, **425**, 753
  Primatologist rocks Gibraltar by quitting over macaque cull, *News*, **426**, 111
  Germany outs big faith in big guns as science ministry feels pinch, *News*, **426**, 372
  Shortcomings halt study of Swiss cancer vaccine, *News*, **426**, 484
  Climate study highlights inadequacy of emissions cuts, *News*, **426**, 486
  Disillusionment and doubt undermine Kyoto's birthday bash, *News*, **426**, 742
  EMBO chief threatens to quit over funding crisis, *News*, **426**, 743
  Climate change: The long road from Kyoto, *News feature*, **426**, 756
Schindler, D W. Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere (*by* Sterner, R W, Elser, J J), *Book review*, **423**, 225
Schipani, E. *See under* Calvi, L M, **425**, 841
Schlaeger, T M. *See under* Mikkola, H K A, **421**, 547
Schlegel, E M. The Restless Universe: Understanding X-ray Astronomy in the Age of *Chandra* and *Newton*, *Book review by* Piro, L, **421**, 21
Schliwa, M. Molecular motors (*with* Woehlke, G), *Insight review article*, **422**, 759
Schlombs, K. *See under* Knaut, H, **421**, 279
Schluterman, M K. *See under* Garg, V, **424**, 443
Schmelzer, I. *See under* Siddall, M, **423**, 853
Schmid, H M. *See under* Greiner, J, **426**, 157
Schmid, M. *See under* Kuypers, M M M, **422**, 608
Schmid, S L. *See under* Conner, S D, **422**, 37
Schmidhuber, J. Flying into history, *Correspondence*, **421**, 689
Schmidt, B P. *See under* Price, P A, **423**, 844
Schmidt, E F. *See under* Sutton, M A, **421**, 70
Schmidt-Aursch, M C. *See under* Jokat, W, **423**, 962
Schmidt-Kaler, F. *See under* Guide, S, **421**, 48
  Realization of the Cirac–Zoller controlled-NOT quantum gate (*with* Häffner, H, Riebe, M, Guide, S, Lancaster, G P T, Deuschele, T, Becher, C, Roos, C F, Eschner, J, Blatt, R), *Letter to Nature*, **422**, 408
Schmitt, R. Developmental biology: How to turn inside out (*with* Sumper, M), *News and views*, **424**, 499
Schmitz, H H. *See under* Schroeter, H, **426**, 787
Schmutz, J. *See under* Grimwood, J, **425**, 775
Schneider, D P. *See under* Inada, N, **426**, 810
Schneider, E. *See under* Schwartz, M, **423**, 118
Schneider, G E. *See under* Raxworthy, C J, **426**, 837
Schneider, N M. *See under* Lellouch, E, **421**, 45
Schneider, R. Low-mass relics of early star formation (*with* Ferrara, A, Salvaterra, R, Omukai, K, Bromm, V), *Letter to Nature*, **422**, 869
Schneider, R A. *See under* Helms, J A, **423**, 326
Schneider, S H. *See under* Root, T L, **421**, 57
Schoelkopf, R J. *See under* Kiselev, S I, **425**, 380
Schoenberger, S P. *See under* Janssen, E M, **421**, 852
Schofield, O. *See under* Quigg, A, **425**, 291
Scholey, J M. Cell division (*with* Brust-Mascher, I, Mogilner, A), *Insight review article*, **422**, 746
Scholtz, C H. *See under* Dacke, M, **424**, 33
Scholtz, G. Ecology: Parthenogenesis in an outsider crayfish (*with* Braband, A, Tolley, L, Reimann, A, Mittmann, B, Lukhaup, C, Steuerwald, F, Vogt, G), *Brief communication*, **421**, 806
Scholz, C H. Earthquakes: Good tidings, *News and views*, **425**, 670
Schommer, C. *See under* Palatnik, J F, **425**, 257
Schön, J H. Retraction: Gate-induced superconductivity in a solution-processed organic polymer film (*with* Dodabalapur, A, Bao, Z, Kloc, Ch, Schenker, O, Batlogg, B), *Letter to Nature*, **422**, 92
  Retraction: Self-assembled monolayer organic field-effect transistors (*with* Meng, H, Bao, Z), *Letter to Nature*, **422**, 92
  Retraction: Superconductivity in $CaCuO_2$ as a result of field-effect doping (*with* Dorget, M, Beuran, F C, Zu, X Z, Arushanov, E, Deville Cavellin, C, Laguës, M), *Letter to Nature*, **422**, 92
  Retraction: Superconductivity in single crystals of the fullerene C70 (*with* Kloc, Ch, Siegrist, T, Steigerwald, M, Svensson, C, Batlogg, B), *Letter to Nature*, **422**, 92
  Retraction: Efficient organic photovoltaic diodes based on doped pentacene (*with* Kloc, Ch, Bucher, E, Batlogg, B), *Letter to Nature*, **422**, 93
  Retraction: Superconductivity at 52 K in hole-doped C60 (*with* Kloc, Ch, Batlogg, B), *Letter to Nature*, **422**, 93
  Retraction: Superconductivity in molecular crystals induced by charge injection (*with* Kloc, Ch, Batlogg, B), *Letter to Nature*, **422**, 93
Schonberger, U. *See under* Knaut, H, **421**, 279
Schönfisch, B. *See under* Wiedemann, N, **424**, 565
Schonecke, M. *See under* Alff, L, **422**, 698
Schoots, K. *See under* de Jonge, N, **423**, 461
Schoppmeier, M. *See under* Stollewerk, A, **423**, 863
Schott, J-J. *See under* Mohler, P J, **421**, 634
Schou, J. *See under* Gizon, L, **421**, 43, **421**, 764
Schouenborg, J. *See under* Petersson, P, **424**, 72
Schouten, H. *See under* Dick, H J B, **426**, 405
Schouten, S. *See under* Schefuß, E, **422**, 418
Schram, F R. Darwin and Barnacle (*by* Stott, R), *Book review*, **422**, 472
Schrappe, M. *See under* Jumaa, H, **423**, 452
Schreiner, C E. *See under* Zhang, L I, **424**, 201
Schroder, R. The genes *orthodenticle* and *hunchback* substitute for *bicoid* in the beetle *Tribolium*, *Letter to Nature*, **422**, 621
Schröder, R R. *See under* Holmes, K C, **425**, 423
Schroeter, H. Nutrition: Milk and absorption of dietary flavanols (*with* Holt, R R, Orozco, T J, Schmitz, H H, Keen, C L), *Brief communication*, **426**, 787
Schubert, M. *See under* Bates, S H, **421**, 856
Schuldt, A. Developmental biology: Guidance molecule goes global, *News and views*, **422**, 125
  Immunology: Lone rangers, *News and views*, **422**, 132
Schuler, B. Corrigendum: Probing the free-energy surface for protein folding with dingle-molecule fluorescence spectroscopy (*with* Lipman, E Eaton, W A), *Letter to Nature*, **421**, 94
Schuler, E. The public has its own view of what is a risk, *Correspondence*, **425**, 343
Schulman, B A. *See under* Walden, H, **422**, 330
Schulte, U. *See under* Galagan, J E, **422**, 859
Schultheis, M. *See under* Sicardy, B, **424**, 168
Schulting, R J. *See under* Richards, M P, **425**, 366
Schultz, B. *See under* Skaletsky, H, **423**, 825
Schultz, B R. *See under* Hillier, L W, **424**, 157
Schultz, L J. *See under* Borozdin, K N, **422**, 277
Schulz, M. Three-dimensional imaging of atomic four-body processes (*with* Moshammer, R, Fischer, D, Kollmus, H, Madison, D H, Jones, S, Ullrich, J), *Letter to Nature*, **422**, 48
Schulze, D J. Extreme crustal oxygen isotope signatures preserved in coesite in diamond (*with* Harte, B, Valley, J W, Brenan, J M, Channer, D M De R), *Letter to Nature*, **423**, 68
Schutten, M. *See under* Fouchier, R A M, **423**, 240
Schwab, R. *See under* Palatnik, J F, **425**, 257
Schwager, S L U. *See under* Natesh, R, **421**, 551
Schwammle, V. Solitary wave behaviour of sand dunes (*with* Herrmann, H J), *Brief communication*, **426**, 619
Schwartz, M. How the Cows Turned Mad (*with* Schneider, E), *Book review by* Race, R E, **423**, 118
Schwartz, M S. *See under* Thomas, J W, **424**, 788
Schwartz, M W. *See under* Bates, S H, **421**, 856
Schwartz, S. *See under* Thomas, J W, **424**, 788
Schwartzberg, P L. *See under* Crotty, S, **421**, 282
Schwarz, H. *See under* Friml, J, **426**, 147
Schwarz-Linek, U. Pathogenic bacteria attach to human fibronectin through a tandem β-zipper (*with* Werner, J M, Pickford, A R, Gurusiddappa, S, Kim, J H, Pilka, E S, Briggs, J A G, Gough, T S, Höök, M, Campbell, I D, Potts, J R), *Letter to Nature*, **423**, 177
Schweger, C E. *See under* Zazula, G D, **423**, 603
Schwindt, P C. *See under* Cook, D L, **421**, 66, **423**, 197
Sclater, J G. Earth science: Ins and outs on the ocean floor, *News and views*, **421**, 590
Scmid, M. *See under* Koller, J, **425**, 784
Scofield, R P. *See under* Huynen, L, **425**, 175
Scorrano, L. *See under* Danial, N N, **424**, 952
Scott, C E. *See under* Mungall, A J, **425**, 805
Scott, I C. Developmental biology: Twisting the body into shape (*with* Stainier, D Y R), *News and views*, **425**, 461
Scott, J A. *See under* Currie, C R, **423**, 461
Scott, K. *See under* Skaletsky, H, **423**, 825
  See under Hillier, L W, **424**, 157
Scott, K A. *See under* Williams, P M, **422**, 446
Scott, L. *See under* Eriksson, M, **423**, 293
Scott, M P. Cancer: A twist in a hedgehog's tale, *News and views*, **425**, 780
Scott, T R. *See under* Verhagen, J V, **426**, 602
Scrinzi, A. *See under* Baltuška, A, **421**, 611, **422**, 189
Scully, M O. Quantum optics: Light at a standstill, *News and views*, **426**, 610
Searle, S M. *see under* Mungall, A J, **425**, 805
Searles, A. *See under* Lu, D, **426**, 96
Searls, D B. Trees of life and language, *News and views*, **426**, 391
Sedgwick, J D. *See under* Cua, D J, **421**, 744
Sedkov, Y. Methylation at lysine 4 of histone H3 in ecdysone-dependent development of *Drosophila* (*with* Cho, E, Petruk, S, Cherbas, L, Smith, S T, Jones, R S, Cherbas, P, Canaani, E, Jaynes, J B, Mazo, A), *Letter to Nature*, **426**, 78

Seeberg, E. *See under* Aas, P A, **421**, 859
Seeburg, P H. Neurobiology: A thorny issue (*with* Osten, P), *News and views*, **424**, 627
Seeger, K. *See under* Wood, V, **421**, 94
Seeley, T D. Form and Function in the Honey Bee (*by* Goodman, L), *Book review*, **424**, 372
Seeman, N C. DNA in a material world, *Feature*, **421**, 427
Seewald, J S. Organic-inorganic interactions in petroleum-producing sedimentary basins, *Insight review article*, **426**, 327
Sefc, K M. *See under* Sorenson, M D, **424**, 928
Segal, H P. Our Own Devices: The Past and Future of Body Technology (*by* Tenner, E), *Book review*, **424**, 998
Segall, P. *See under* Jónsson, S, **424**, 179
Segev, M. *See under* Fleischer, J W, **422**, 147
Segurens, B. *See under* Heilig, R, **421**, 601
Sehra, H K. *See under* Mungall, A J. **425**, 805
Seife, C. Alpha and Omega: The Search for the Beginning and the End of the Universe, *Book review by* Coles, P, **425**, 127
Seiffert, E R. Fossil evidence for an ancient divergence of lorises and galagos (*with* Simons, E L, Attia, Y), *Letter to Nature*, **422**, 421
See under Kappelman, J, **426**, 549
Seiler, C. *See under* Knaut, H, **421**, 279
Seiler, P. *See under* Planz, O, **426**, 474
Seiler, S. *See under* Galagan, J E, **422**, 859
Seitz, A R. Psychophysics: Is subliminal learning really passive? (*with* Watanabe, T), *Brief communication*, **422**, 36
Seitz, R. Crystal: ever-evolving and expanding in scope, *Correspondence*, **423**, 917
Sekhon, M. *See under* Hillier, L W, **424**, 157
Seki, K. Cold ions in the hot plasma sheet of Earth's magnetotail (*with* Hirahara, M, Hoshino, M, Terasawa, T, Elphic, R C, Saito, Y, Mukai, T, Hayakawa, H, Kojima, H, Matsumoto, H), *Letter to Nature*, **422**, 589
Sekine, T. *See under* Tomeoka, K, **423**, 60
Selengut, J D. *See under* Tootle, T L, **426**, 299
Self, D. Neurobiology: Dopamine as chicken and egg, *News and views*, **422**, 573
Self, D W. *See under* Sutton, M A, **421**, 70
Selitrennikoff, C P. *See under* Galagan, J E, **422**, 859
Selker, E U. *See under* Galagan, J E, **422**, 859
The methylated component of the *Neurospora crassa* genome (*with* Tountas, N A, Cross, S H, Margolin, B S, Murphy, J G, Bird, A P, Freitag, M), *Letter to Nature*, **422**, 893
Selkoe, D J. Folding proteins in fatal ways, *Insight review article*, **426**, 900
Semaniak, J. *See under* McCall, B J, **422**, 500
Semmann, D. Volunteering leads to rock-paper-scissors dynamics in a public goods game (*with* Krambeck, H-J, Milinski, M), *Letter to Nature*, **425**, 390
Semon, E. *See under* Schaal, B, **424**, 68
Sen, S. *See under* Kappelman, J, **426**, 549
Sengupta, J. *See under* Rawat, U B S, **421**, 87
Sensintaffar, J. *See under* Kamal, A, **425**, 407
Sentjens, R E. *See under* Lamarre, D, **426**, 186, **426**, 314
Seo, H S. LAF1 ubiquitination by COP1 controls photomorphogenesis and is stimulated by SPA1 (*with* Yang, J-Y, Ishikawa, M, Bolle, C, Ballesteros, M L, Chua, N-H), *Letter to Nature*, **423**, 995
Serafini, M. Plasma antioxidants from chocolate (*with* Bugianesi, R, Maiani, G, Valtuena, S, De Santis, S, Crozier, A), *Brief communication*, **424**, 1013
Reply: Nutrition: Milk and absorption of dietary flavanols (*with* Crozier, A), *Brief communication*, **426**, 788
Serga, A A. *See under* Demokritov, S O, **426**, 159
Serini, G. Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function (*with* Valdembri, D, Zanivan, S, Morterra, G, Burkhardt, C, Caccavari, F, Zammataro, L, Primo, L, Tamagnone, L, Logan, M, Tessier-Lavigne, M, Taniguchi, M, Püschel, A W, Bussolino, F), *Article*, **424**, 391
Erratum: Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function (*with* Valdembri, D, Zanivan, S, Morterra, G, Burkhardt, C, Caccavari, F, Zammataro, L, Primo, L, Tamagnone, L, Logan, M, Tessier-Lavigne, M, Taniguchi, M, Puschel, A W, Bussolino, F), *Letter to Nature*, **424**, 974
Serrano, A. *See under* Fu, J, **425**, 91
Setyawan, W. *See under* Rao, S G, **425**, 36
Seuwen, K. *See under* Ludwig, M-G, **425**, 93
Seydoux, G. *See under* DeRenzo, C, **424**, 685
Seymour, B. *See under* Cua, D J, **421**, 744
Seymour, R S. Heat reward for insect pollinators (*with* White, C R, Gibernau, M), *Brief communication*, **426**, 243
Sgouros, J. *See under* Wood, V, **421**, 94
Shaban, H. *See under* Humeau, Y, **426**, 841
Shaco-Levy, R. *See under* Gordon, J M, **424**, 510
Shaevitz, J W. Backtracking by single RNA polymerase molecules observed at near-base-pair resolution (*with* Abbondanzieri, E A, Landick, R, Block, S M), *Letter to Nature*, **426**, 684
Shaffer, T. *See under* Heilig, R, **421**, 601
Shah, K. *See under* Ubersax, J A, **425**, 859
Shah, M. *See under* Rocap, G, **424**, 1042
Shakespeare, T. *See under* Kerr, A, **421**, 213
Shapin, S. The Man Who Flattened the Earth: Maupertuis and the Sciences in the Enlightenment (*by* Terrall, M), *Book review*, **423**, 482
Shapiro, S D. Immunology: Mobilizing the army, *News and views*, **421**, 223
See under Morris, D G, **422**, 169
Sharp, S. *See under* Wood, V, **421**, 94
Sharpe, T. *See under* Saveliev, A, **422**, 909
Shashok, K. *See under* Jefferson, T, **421**, 209
Shaw, G M. *See under* Wei, X, **422**, 307, **423**, 197
Shaw, M A. *See under* Forkey, J N, **422**, 399
Shaw, S L. *See under* Rocap, G, **424**, 1042
Shawcross, W. *See under* Bowler, J M, **421**, 837
Shcheka, S S. *See under* Keppler, H, **424**, 414
Sheen, J. *See under* Yanagisawa, S, **425**, 521
Sheetz, M P. *See under* Jiang, G, **424**, 334
Shelby, J P. Microfluid systems: High radial acceleration in microvortices (*with* Lim, D S W, Kuo, J S, Chiu, D T), *Brief communication*, **425**, 38
Sheldon, B C. *See under* Reynolds, J D, **422**, 669
Sheldon, E S. *See under* Inada, N, **426**, 810
Shell, E R. The Hungry Gene: The Science of Fat and the Future of Thin (*with*), *Book review by* Kopelman, P, **422**, 378
Shen, K M. *See under* Zhou, X J, **423**, 398
Shen, M. *See under* Tong, L, **426**, 816
Shen, Y. *See under* Ren, S-X, **422**, 888
Evidence for low sulphate and anoxia in a mid-Proterozoic marine basin (*with* Knoll, A H, Walter, M R), *Letter to Nature*, **423**, 632
Shen, Z-X. *See under* Zhou, X J, **423**, 398
Sheng, H-H. *See under* Ren, S-X, **422**, 888
Sheng, M. *See under* Littleton, J T, **423**, 931
See under Passafaro, M, **424**, 677
Shennan, S. Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution, *Book review by* Bettinger, R L, **422**, 20
Shepherd, J. In a Perfect Ocean (*by* Pauly, D, Maclean, J), *Book review*, **425**, 125
Sheppard, C R C. Predicted recurrences of mass coral mortality in the Indian Ocean, *Letter to Nature*, **425**, 294
Sheppard, D. *See under* Morris, D G, **422**, 169
Sheppard, S S. An abundant population of small irregular satellites around Jupiter (*with* Jewitt, D C), *Letter to Nature*, **423**, 261
Sheridan, E. *See under* Mungall, A J, **425**, 805
Sherley, J L. Embryos aren't essential to stem-cell research, *Correspondence*, **423**, 381
Sherlock, J. *See under* Cua, D J, **421**, 744
Sherman, P W. Behavioural ecology: Father knows best (*with* Neff, B D), *News and views*, **425**, 136
Sherwood, P. DNA from Alberts to Zinder, *Commentary*, **422**, 806
Shi, M-H. *See under* Ren, S-X, **422**, 888
Shi, Y. Coordinated histone modifications mediated by a CtBP corepressor complex (*with* Sawada, J-I, Sui, G, Affar, E B, Whetstline, J R, Lan, F, Ogawa, H, Luke, M P-S, Nakatani, Y, Shi, Y), *Letter to Nature*. **422**, 735
See under Shi, Y, **422**, 735
Molecular identification of a danger signal that alerts the immune system to dying cells (*with* Evans, J E, Rock, K L), *Letter to Nature*, **425**, 516
Shibata, Y. *See under* Yamauchi, T, **423**, 762
Shibue, T. *See under* Takaoka, A, **424**, 516
Shigemoto-Mogami, Y. *See under* Tsuda, M, **424**, 778
Shigeno, K. *See under* Nanayama, F, **424**, 660
Shiller, D M. *See under* Tremblay, S, **423**, 866
Shilling, R A. *See under* Venter, H, **426**, 866
Shima, S. *See under* Kruger, M, **426**, 878
Shimada, K. *See under* Ishii, H, **426**, 540
Shimada, Y. *See under* Berman, D M, **425**, 846
Shimamoto, K. *See under* Hayama, R, **422**, 719
Shimizu, N. *See under* Rapp, R P, **425**, 605
Shimizu, T. *See under* Yamauchi, T, **423**, 762
Shimizu, Y. *See under* Sugiura, R, **424**, 961
Shimokawa, K. *See under* Nanayama, F, **424**, 660
Shimron, A. *See under* Frumkin, A, **425**, 169
Shin, D W. *See under* Kim, J, **424**, 81
Shin, T-H. *See under* Xu, L, **425**, 316
Shindo, D. *See under* Murakami, Y, **423**, 965
Shinohara, T. *See under* Itoh, Y, **422**, 173
Shintani, H. *See under* Kimura, T, **426**, 55
Shiozawa, H. *See under* Ishii, H, **426**, 540
Shipley, M T. *See under* Aungst, J L, **426**, 623
Shipston, M J. *See under* Duncan, R R, **422**, 176
Shirahige, K. *See under* Katou, Y, **424**, 1078
Shirey, S B. *See under* Wilson, A H, **423**, 858
Shoji, H. *See under* Watanabe, O, **422**, 509
Shokat, K M. *See under* Ubersax, J A, **425**, 859
Shotton, D. *See under* Catton, C, **422**, 374
Shpakovski, G V. *See under* Wood, V, **421**, 94
Shtrikman, H. *See under* Ji, Y, **422**, 415
Shu, C L. *See under* Thomas, J W, **424**, 788
Shu, D-G. Head and backbone of the Early Cambrian vertebrate *Haikouichthys* (*with* Conway Morris, S, Han, J, Zhang, Z-F, Yasui, K, Janvier, P, Chen, L, Zhang, X-L, Liu, J-N, Li, Y, Liu, H-Q), *Letter to Nature*, **421**, 526
Shu, H-B. *See under* Liu, Y, **423**, 49
Shu, Y. Turning on and off recurrent balanced cortical activity (*with* Hasenstaub, A, McCormick, D A), *Letter to Nature*, **423**, 288
Shubin, N H. *See under* Gao, K-Q, **422**, 424
Shuntoh, H. *See under* Sugiura, R, **424**, 961
Sible, J C. Cell biology: Thanks for the memory, *News and views*, **426**, 392
Sicardy, B. Large changes in Pluto's atmosphere as revealed by recent stellar occultations (*with* Widemann, T, Lellouch, E, Veillet, C, Cuillandre, J-C, Colas, F, Roques, F, Beisker, W, Kretlow, M, Lagrange, A-M, Gendron, E, Lacombe, F, Lecacheux, J, Birnbaum, C, Flenga, A, Leyrat, C, Maury, A, Raynaud, E, Renner, S, Schultheis, M, Brooks, K, Delsanti, A, Halnaut, O R, Gilmozzi, R, Lidman, C, Spyromillo, J, Rapaport, M, Rosenzweig, P, Naranjo, O, Porras, L, Diaz, F, Calderon, H, Carrillo, S, Carvajal, A, Recalde, E, Gaviria Cavero, L, Montalvo, C, Barria, D, Campos, R, Duffard, R, Levato, H), *Letter to Nature*, **424**, 168
Siccama, T G. *See under* Blum, J D, **423**, 824
Siddall, M. Sea-level fluctuations during the last glacial cycle (*with* Rohling, E J, Almogi-Labin, A, Hemleben, Ch, Meischner, D, Schmelzer, I, Smeed, D A), *Letter to Nature*, **423**, 853
Siddiqi, A A. Leaving Earth: Space Stations, Rival Superpowers, and the Quest for Interplanetary Travel (*by* Zimmerman, R), *Book review*, **426**, 498
Siebert, S J. *See under* Smith, G F, **422**, 375
Siefritz, F. *See under* Uehlein, N, **425**, 734
Siegal, M L. *See under* Bergman, A, **424**, 549
Siegrist, T. *See under* Schön, J H, **422**, 92
Siepel, A C. *See under* Thomas, J W, **424**, 788
Sierk, A J. *See under* Möller, P, **422**, 485
Sierk, M. Complexity may teach us a simple lesson, *Correspondence*, **421**, 573
Sigler, P B. *See under* Juo, Z S, **422**, 534
Sigworth, F J. Life's transistors, *News and views*, **423**, 21
Sijen, T. Transposon silencing in the *Caenorhabditis elegans* germ line by natural RNAi (*with* Plasterk, R H A), *Letter to Nature*, **426**, 310
Sik, A. *See under* Coull, J A M, **424**, 938
Silberberg, Y. *See under* Christodoulides, D M, **424**, 817
Silk, J B. *See under* Buchan, J C, **425**, 179
Silva, J M. *See under* Caudy, A M, **425**, 411
Silver, P G. *See under* Niu, F, **426**, 544
Silver, S J. *See under* Tootle, T L, **426**, 299
Simmonds, M. *See under* Wood, V, **421**, 94
Simmonds, R W. *See under* McElroy, K, **422**, 592
Simmons, D. *See under* Sutton, M A, **421**, 70
Simms, E. *See under* Hillier, L W, **424**, 157
Simon, A. *See under* Ajami, D, **426**, 819
Simon, B. *See under* Lingel, A, **426**, 465
Simon, M A. *See under* Ma, D, **421**, 543
Simoneau, B. *See under* Lamarre, D, **426**, 186, **426**, 314
Simonet, W S. *See under* Boyle, W J, **423**, 337
Simons, E L. *See under* Seiffert, E R, **422**, 421
Simons, K. *See under* Featherstone, C, **425**, 451
Simpson, R J. Proteins and Proteomics: A Laboratory Manual, *Book review by* Oliver, S, **422**, 473
Sims, D W. Animal behaviour: Homing is a breeze for sea turtles, *News and views*, **423**, 128
Sims, S K. *See under* Mungall, A J, **425**, 805
Simstich, J. *See under* Bauch, D, **424**, 299
Sinclair, A. Archaeology: Art of the ancients, *News and views*, **426**, 774
Sinclair, A R E. Patterns of predation in a diverse predator–prey system (*with* Mduma, S, Brashares, J S), *Letter to Nature*, **425**, 288
Sinclair, D A. *See under* Andersen, R M, **423**, 181
See under Howitz, K T, **425**, 191
Singer, E. US draws up plans to tackle autism, *News*, **426**, 373
Scientists go to jail to crack substance abuse, *News*, **426**, 486
Singer, H J. Storms from the Sun: The Emerging Science of Space Weather (*by* Carlowicz, M J, Lopez, R E), *Book review*, **422**, 21
Singer, J. *See under* Eriksson, M, **423**, 293
Singer, M. DNA: The secret of life (*by* Watson, J D, Berry, A, Knopf, A A), *Book review*, **422**, 809
See under Berg, P, **426**, 122
Singh, J A. Work on 'non-lethal' weapons should be limited too, *Correspondence*, **422**, 113
SARS, a challenge from the South, *Correspondence*, **423**, 585
Singhal, A. Combating with AIDS: Communication Strategies in Action (*with* Rogers, E M), *Book review by* Priya, R, **423**, 685
Sinha, N. *See under* Kim, M, **424**, 438, **425**, 102
Sinninghe Damste, J S. *See under* Kuypers, M M M, **422**, 608
Sio, S O. *See under* Sugiura, R, **424**, 961
Sirocko, F. Global change: Ups and downs in the Red Sea, *News and views*, **423**, 813
Sirvain-Trukniewicz, P. *See under* Heilig, R, **421**, 601
Sitia, R. Quality control in the endoplasmic reticulum protein factory (*with* Braakman, I), *Insight progress*, **426**, 891
Sivars, U. Yip3 catalyses the dissociation of endosomal Rab-GDI complexes (*with* Alvazian, D, Pfeffer, S R), *Letter to Nature*, **425**, 856
Skaletsky, H. The male-specific region of the human Y chromosome is a mosaic of discrete sequence classes (*with* Kuroda-Kawaguchi, T, Minx, P J, Cordum, H S, Hillier, L, Brown, L G, Repping, S, Pyntikova, T, Ali, J, Bieri, T, Chinwalla, A, Delehaunty, A, Delehaunty, K, Du, H, Fewell, G, Fulton, L, Fulton, R, Graves, T, Hou, S-F, Latrielle, P, Leonard, S, Mardis, E, Maupin, R, McPherson, J, Miner, T, Nash, W, Nguyen, C, Ozersky, P, Pepin, K, Rock, S, Rohlfing, T, Scott, K, Schultz, B, Strong, C, Tin-Wollam, A, Yang, S-P, Waterston, R H, Wilson, R K, Rozen, S, Page, D C), *Article*, **423**, 825
See under Rozen, S, **423**, 873
Skelton, J. *See under* Wood, V, **421**, 94
Skinner, G. Astronomy: Black holes, fleas and microlithography (*with* Gorenstein, P), *Brief communication*, **426**, 245
Skorka, P. How do impact factors relate to the real world?, *Correspondence*, **425**, 661
Skorpen, F. *See under* Aas, P A, **421**, 859
Skrbek, L. *See under* Finne, A P, **424**, 1022
Skryabin, D V. *See under* Reeves, W H, **424**, 511
Skuce, C D. *See under* Mungall, A J, **425**, 805
Skumryev, V. Beating the superparamagnetic limit with exchange bias (*with* Stoyanov, S, Zhang, Y, Hadjipanayis, G, Givord, D Nogués, J), *Letter to Nature*, **423**, 850

Slabbekoorn, H. Birds sing at a higher pitch in urban noise (*with* Peet, M), *Brief communication*, **424**, 267
Slater, E C. Wandering in the Gardens of the Mind: Peter Mitchell and the Making of Glynn (*by* Prebble, J, Weber, B), *Book review*, **422**, 816
Sleep, N H. Impossible Extinction: Natural Catastrophes and the Supremacy of the Microbial World (*by* Cockell, C C), *Book review*, **422**, 663
  The Life and Death of Planet Earth: How the New Science of Astrobiology Charts the Ultimate Fate of our World (*by* Ward, P D, Brownlee, D), *Book review*, **422**, 663
Sleight, A. Materials science: Zero-expansion plan, *News and views*, **425**, 674
Sliekers, A O. *See under* Kuypers, M M M, **422**, 608
Sloan Jr, E D. Fundamental principles and applications of natural gas hydrates, *Insight review article*, **426**, 353
Sloane, N. Kepler's Conjecture: How Some of the Greatest Minds in History Helped Solve One of the Oldest Math Problems in the World (*by* Szpiro, G G), *Book review*, **425**, 126
Slupphaug, G. *See under* Aas, P A, **421**, 859
Smail, I R. *See under* Stevens, J A, **425**, 264
Small, I R. *See under* Chapman, S C, **422**, 695
Small, S. *See under* Clyde, D E, **426**, 849
Smeed, D A. *See under* Siddall, M, **423**, 853
Smet, J H. Quantum physics: Wheels within wheels, *News and views*, **422**, 391
Smetacek, V. *See under* Hamm, C E, **421**, 841
Smilde, H-J H. *See under* Hilgenkamp, H, **422**, 50
Smink, L J. *See under* Ueda, H, **423**, 506
Smirnov, S. *See under* Galagan, J E, **422**, 859
Smit, A F. *See under* Thomas, J W, **424**, 788
Smith, A. *See under* Medvinsky, A, **422**, 823
Smith, A N. *See under* Ueda, H, **423**, 506
Smith, C G. Animal research needs organized defence, *Correspondence*, **421**, 210
  See under Crook, R, **424**, 751
Smith, C M. Low-loss hollow-core silica/air photonic bandgap fibre (*with* Venkataraman, N, Gallagher, M T, Müller, D, West, J A, Borrelli, N F, Allan, D C, Koch, K W), *Letter to Nature*, **424**, 657
Smith Churchland, P. Brain-Wise: Studies in Neurophilosophy, *Book review by* Noe, A, **423**, 805
Smith, D K. *See under* Perfit, M R, **426**, 62
Smith, G F. The price of collecting life (*with* Steenkamp, Y, Klopper, R R, Siebert, S J, Arnold, T H), *Commentary*, **422**, 375
Smith, G R. *See under* Taylor, A F, **423**, 889
Smith, J. *See under* Gray, N S, **423**, 497
Smith, J J. *See under* Looger, L L, **423**, 185
Smith, M. *See under* Mungall, A J, **425**, 805
Smith, R J. *See under* Oldfield, T E E, **423**, 531
  Governance and the loss of biodiversity (*with* Muir, R D J, Walpole, M J, Balmford, A, Leader-Williams, N), *Letter to Nature*, **426**, 67
Smith, S. *See under* Mungall, A J, **425**, 805
Smith, S B. *See under* Bustamante, C, **421**, 423
  See under Bryant, Z, **424**, 338
Smith, S T. *See under* Sedkov, Y, **426**, 78
Smith Schmidt, T. The crystal's in the mail, *News feature*, **423**, 799
Smith, T B. *See under* Calsbeek, R, **426**, 552
Smol, J P. *See under* Krummel, E M, **425**, 255
Smout, T C. *See under* Miller, H, **426**, 19
Smyth, D. *See under* Ueda, H, **423**, 506
Snaith, H A. Fission yeast mod5p regulates polarized growth through anchoring of tea1p at cell tips (*with* Sawin, K E), *Letter to Nature*, **423**, 647
Snook, H. *See under* Ueda, H, **423**, 506
Snow, A. Unnatural selection, *Concepts*, **424**, 619
Snow, J. *See under* Jokat, W, **423**, 962
Snow, J E. *See under* Edmonds, H N, **421**, 252
  See under Michael, P J, **423**, 956
Snowden, R J. *See under* Gray, N S, **423**, 497
Snyder, M. *See under* Phizicky, E, **422**, 208
Sober, J. *See under* Percy, K E, **421**, 190
Soderberg, A M. *See under* Fox, D W, **422**, 284
  See under Price, P A, **423**, 844
  See under Berger, E, **426**, 154
Soderqvist, T. Science as Autobiography: The Troubled Life of Niels Jerne, *Book review by* Nossal, G J V, **424**, 253
Sodhi, N S. *See under* Brook, B W, **424**, 420
Soh, H. *See under* Kim, J, **424**, 81
Sohrmann, M. *See under* Kamath, R S, **421**, 231
Soker, N. Astronomy: The mystery companion, *News and views*, **426**, 236
Sokolowski-Tinten, K. Femtosecond X-ray measurement of coherent lattice vibrations near the Lindemann stability limit (*with* Blome, C, Blums, J, Cavalleri, A, Dietrich, C, Tarasevitch, A, Uschmann, I, Forster, E, Kammier, M, Horn-von-Hoegen, M, von der Linde, D), *Letter to Nature*, **422**, 287
Solak, H H. *See under* Kim, S O, **424**, 411
Solanki, S K. Three dimensional magnetic field topology in a region of solar coronal heating (*with* Lagg, A, Woch, J, Krupp, N, Collados, M), *Letter to Nature*, **425**, 692
Sollerman, J. *See under* Hjorth, J, **423**, 847
Sollner, C. *See under* Knaut, H, **421**, 279
Solomon, P. Astronomy: An early stellar nursery, *News and views*, **424**, 382
  The essential signature of a massive starburst in a distant quasar (*with* Vanden Bout, P, Carilli, C, Guelin, M), *Letter to Nature*, **426**, 636
Solomon, T H. Uniform resonant chaotic mixing in fluid flows (*with* Mezic, I), *Letter to Nature*, **425**, 376
Solow, A R. *See under* Roberts, D L, **426**, 245
Somasundaran, M. *See under* Li, W, **426**, 450
Somers, D E. *See under* MP, **426**, 567
Somerville, R L. *See under* Ren, S-X, **422**, 888
Sommer, S. *See under* Witte, U, **424**, 763
Somogyi, P. *See under* Klausberger, T, **421**, 844
Son, W. *See under* Kim, J, **424**, 81
Sonawane, M. *See under* Knaut, H, **421**, 279
Song, L-S. *See under* Mohler, P J, **421**, 634
Song, Z. *See under* Pascual, J I, **423**, 525
Sorcinelli, M D. *See under* Opferman, J T, **426**, 671
Sorenson, M D. Speciation by host switch in brood parasitic indigobirds (*with* Sefc, K M, Payne, R B), *Letter to Nature*, **424**, 928
Sorokin, A. *See under* Ivanova, N, **423**, 87
Sossinsky, A. Knots: Mathematics with a Twist (*with* Weiss, G), *Book review by* Stasiak, A, **421**, 479
Souissi, S. *See under* Beaugrand, G, **426**, 661
Soukoulis, C M. *See under* Cubukcu, E, **423**, 604
Soule, J. *See under* de Joussineau, C, **426**, 555
Souma, S. The origin of multiple superconducting gaps in MgB_2 (*with* Machida, Y, Sato, T, Takahashi, T, Matsui, H, Wang, S C, Ding, H, Kaminski, A, Campuzano, J C, Sasaki, S, Kadowaki, K), *Letter to Nature*, **423**, 65
Soustelle, C. *See under* Veaute, X, **423**, 309
Southwood, R. The Story of Life, *Book review by* Zimmer, C, **422**, 815
Souza, S P. *See under* Elliot, J L, **424**, 165
Sovath, S. *See under* Hoebe, K, **424**, 743
Soyfer, V N. Obrazovaniye, Kotoroye My Mozhem Poteryat (The Education That We May Lose), (*by* Sadovnichii, V A), *Book review*, **421**, 693
Spain, W J. *See under* Cook, D L, **421**, 66, **423**, 197
Spalding, E P. *See under* Noh, B, **423**, 999
Spalding, G C. *See under* MacDonald, M P, **426**, 421
Spall, M A. *See under* Pickart, R S, **424**, 152
Sparks, W B. *See under* Bond, H E, **422**, 405
Sparvoli, R. *See under* Casolino, M, **422**, 680
Speck, O. Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity (*with* Hughes, S C, Noren, N K, Kulikauskas, R M, Fehon, R G), *Letter to Nature*, **421**, 83
Spence, G D. *See under* Nedimovic, M R, **424**, 416
Spencer, A. *See under* Dumoulin, M, **424**, 783
Sperry, J S. *See under* McCulloh, K A, **421**, 939
Spicer, R A. Constant elevation of southern Tibet over the past 15 million years (*with* Harris, N B W, Widdowson, M, Herman, A B, Guo, S, Valdes, P J, Wolfe, J A, Kelley, S P), *Letter to Nature*, **421**, 622
Spiegel, S. *See under* Coursol, S, **423**, 651
Spiegelman, B M. *See under* Puigserver, P, **423**, 550
Spies, M. *See under* Dillingham, M S, **423**, 893
Spiess, V. *See under* Fisher, A T, **421**, 618
Spieth, J. *See under* Hillier, L W, **424**, 157
Spillane, S M. *See under* Armani, D K, **421**, 925
Spillantini, P. *See under* Casolino, M, **422**, 680
Spitzer, M W. *See under* Bala, A D S, **424**, 771
Spitzy, A. *See under* Kerner, M, **422**, 150
Spooner, N A. *See under* Bowler, J M, **421**, 837
Spraggon, L. *See under* Mungall, A J, **425**, 805
Sprague, J E. *See under* Mills, E M, **426**, 403
Sprent, J. Plant biology: Mutual sanctions, *News and views*, **422**, 672
Spriggs, M K. *See under* Pasterkamp, R J, **424**, 398
Springer, O. *See under* Hamm, C E, **421**, 841
Springer, T A. *See under* Takagi, J, **424**, 969
Sprinzak, D. *See under* Ji, Y, **422**, 415
Spurgeon, D. Scientists call for Canada to boost polar-shelf funding, *News*, **421**, 464
Spurgoen, D. Canada boosts spending on science, *News*, **421**, 880
Spurný, P. Photographic observations of Neuschwanstein, a second meteorite from the orbit of the Příbram chondrite (*with* Oberst, J, Heinlein, D), *Letter to Nature*, **423**, 151
Spyromillo, J. *See under* Sicardy, B, **424**, 168
Squares, R. *See under* Wood, V, **421**, 94
Squares, S. *See under* Wood, V, **421**, 94
Squares, S L. *See under* Mungall, A J, **425**, 805
Squire, L R. Memory From A to Z (*by* Dudai, Y), *Book review*, **423**, 119
Srayko, M. *See under* Pintard, L, **425**, 311
Sreedhar Reddy, M. *See under* Krejci, L, **423**, 305
Sridhar, S. *See under* Parimi, P V, **426**, 404
Srinivasan, M V. *See under* Mizutani, A, **423**, 604
Srinivasula, S M. *See under* Jones, J M, **425**, 721
Srivastava, D. *See under* Garg, V, **424**, 443
Staal, M. Temperature excludes N2-fixing heterocystous cyanobacteria in the tropical oceans (*with* Meysman, F J R, Stal, L J), *Letter to Nature*, **425**, 504
Staben, C. *See under* Galagan, J E, **422**, 859
Stach, E A. *See under* Detavernier, C, **426**, 641
Stahr, F R. *See under* Thomson, R E, **424**, 545
Stainier, D Y R. *See under* Scott, I C, **425**, 461
Stal, L J. *See under* Staal, M, **425**, 504
Staller, P. Chemokine receptor CXCR4 downregulated by von Hippel-Lindau tumour suppressor pVHL (*with* Sulitkova, J, Lisztwan, J, Moch, H, Oakeley, E J, Krek, W), *Letter to Nature*, **425**, 307
Stan, T. *See under* Paschen, S A, **426**, 862
Stange-Thomann, N. *See under* Galagan, J E, **422**, 859
Stankiewicz, B A. Integration of geoscience and engineering in the oil industry-just a dream?, *Insight commentary*, **426**, 360
Stanley, A M. *See under* Cho, H-S, **421**, 756
Stanley, H E. *See under* Plerou, V, **421**, 130
  See under Carpena, P, **421**, 764
  See under Gabaix, X, **423**, 267
  See under Liljeros, F, **423**, 606
Stanley, J. *See under* Saunders, K, **422**, 831
Stanley, J-D. Effective protection may alter the look of Venice, *Correspondence*, **425**, 661
Stantripop, S. *See under* Thomas, J W, **424**, 788
Stark, C P. *See under* Dadson, S J, **426**, 648
Stark, J M. Nitrogen storage: UV-B radiation and soil microbial communities (*with* Hart, S C), *Brief communication*, **423**, 137
Starkey, M P. *See under* Walsh, P D, **422**, 611
Starovic, M. *See under* Wu, L, **421**, 942
Starrfield, S. *See under* Bond, H E, **422**, 405
Stasiak, A. Knots: Mathematics with a Twist (*by* Sossinsky, A, Weiss, G), *Book review*, **421**, 479
Staynov, D. MRC planning outweighs excellence in science, *Correspondence*, **423**, 918
Steane, A. Quantum computing: Logic gateway, *News and views*, **422**, 387
Stearns, S C. Theoretical biology: Safeguards and spurs, *News and views*, **424**, 501
Stearns, W H. *See under* Bates, S H, **421**, 856
Stecklum, B. *See under* Greiner, J, **426**, 157
Steel, W H. Measuring dipolar width across liquid-liquid interfaces with 'molecular rulers' (*with* Walker, R A), *Letter to Nature*, **424**, 296
Steenkamp, Y. *See under* Smith, G F, **422**, 375
Stefani, M. *See under* Chiti, F, **424**, 805
Steglich, C. *See under* Rocap, G, **424**, 1042
Steglich, F. *See under* Custers, J, **424**, 524
Stegman, D R. An early lunar core dynamo driven by thermochemical mantle convection (*with* Jellinek, A M, Zatman, S A, Baumgardner, J R, Richards, M A), *Letter to Nature*, **421**, 143
Steigerwald, M. *See under* Schön, J H, **422**, 92
Stein, B E. *See under* Jiang, H, **423**, 982
Steinbock, B. Genetic Politics: From Eugenics to Genome (*by* Kerr, A, Shakespeare, T), *Book review*, **421**, 213
  Genetics and Society: An Introduction (*by* Pilnick, A), *Book review*, **421**, 213
Steinbrecher, K A. *See under* Anest, V, **423**, 659
Steiner, M J. *See under* Doiron-Leyraud, N, **425**, 595
Steinhardt, P. *See under* Gratton, S, **423**, 817
Steinman, L. Medicine: Collateral damage repaired, *News and views*, **422**, 671
Steinmann, G. *See under* Lamarre, D, **426**, 186, **426**, 314
Steinmetz, B D. *See under* Rayapureddi, J P, **426**, 295
Steinmetz, L M. *See under* Gu, Z, **421**, 63
Stellman, J M. The extent and patterns of usage of Agent Orange and other herbicides in Vietnam (*with* Stellman, S D, Christian, R, Weber, T, Tomasallo, C), *Article*, **422**, 681
Stellman, S D. *See under* Stellman, J M, **422**, 681
Stelter, P. Control of spontaneous and damage-induced mutagenesis by SUMO and ubiquitin conjugation (*with* Ulrich, H D), *Letter to Nature*, **425**, 188
Stenner, M D. The speed of information in a 'fast-light' optical medium (*with* Gauthier, D J, Nelfeld, M A), *Letter to Nature*, **425**, 695
Stenseth, N C. *See under* Rueness, E K, **425**, 69
  Complex Population Dynamics: A Theoretical/Empirical Synthesis (*by* Turchin, P), *Book review*, **426**, 18
Stern, D L. *See under* Sucena, E, **424**, 935
Stern, S A. The evolution of comets in the Ooort cloud and Kuiper belt, *Progress article*, **424**, 639
Sternberg, A. Astronomy: Hot gas around the Galaxy, *News and views*, **421**, 708
Sterner, R W. Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere (*with* Elser, J J), *Book review by* Schindler, D W, **423**, 225
Steuerwald, F. *See under* Scholtz, G, **421**, 806
Stevens, C F. Neurobiology: The importance of depression, *News and views*, **421**, 29
Stevens, J A. The formation of cluster elliptical galaxies as revealed by extensive star formation (*with* Ivison, R J, Dunlop, J S, Smail, I R, Percival, W J, Hughes, D H, Rottgering, H J A, van Breugel, W J M, Reuland, M), *Letter to Nature*, **425**, 264
Stevens, K. *See under* Wood, V, **421**, 94
Stevens, S F. *See under* Gandhi, S P, **423**, 607
Stevenson, D J. Mission to Earth's core — a modest proposal, *Brief communication*, **423**, 239
Stevenson, M. *See under* Swingler, S, **424**, 213
Steward, A. *See under* Williams, P M, **422**, 446
Steward, C A. *See under* Mungall, A J, **425**, 805
Stewart, A. *See under* Wood, V, **421**, 94
Stewart, C L. *See under* Mounkes, L C, **423**, 298
Stewart, G S. MDC1 is a mediator of the mammalian DNA damage checkpoint (*with* Wang, B, Bignell, C R, Taylor, A M R, Elledge, S J), *Letter to Nature*, **421**, 961
Stewart, I. *See under* Cohen, J, **421**, 114
  Mathematics: Regime change in meteorology, *News and views*, **422**, 571
  Mathematics: Conjuring with conjectures, *News and views*, **423**, 124
  Mathematics: The 24-dimensional greengrocer, *News and views*, **424**, 895
Stewart, P S. *See under* Mah, T-F, **426**, 306
Steyaert, L T. *See under* Marshall, C H, **426**, 29
Stickgold, R. *See under* Walker, M P, **425**, 616

Stieger, P. *See under* Reinhardt, D, **426**, 255
Stocker, T F. Global change: South dials north, *News and views*, **424**, 496
Stockton, D W. *See under* Kile, B T, **425**, 81
Stohr, K. *See under* Fouchier, R A M, **423**, 240
Stoiber, D. *See under* Takaoka, A, **424**, 516
Stoll-Kleemann, S. *See under* O'Riordan, T, **421**, 113
Stollewerk, A. Involvement of *Notch* and *Delta* genes in spider segmentation (*with* Schoppmeier, M, Damen, W G M), *Letter to Nature*, **423**, 863
Stone, E C. *See under* McDonald, F B, **426**, 48
Stone, M D. *See under* Bryant, Z, **424**, 338
Stone, R C. *See under* Elliot, J L, **424**, 165
Stoner, G. *See under* Thiele, A, **421**, 366
Stopka, P. *See under* Johnson, D D P, **421**, 911
Storch, B. *See under* Jumaa, H, **423**, 452
Story, G M. *See under* Viswanath, V, **423**, 822
Stothard, J R. *See under* Gaunt, M W, **421**, 936
Stott, L. *See under* Visser, K, **421**, 152
Stott, P A. *See under* Gillett, N P, **422**, 292
Stott, R. Darwin and Barnacle, *Book review by* Schram, F R, **422**, 472
Stougaard, J. *See under* Radutoiu, S, **425**, 585
  See under Madsen, E B, **425**, 637
Stoughton, R B. *See under* Schadt, E E, **422**, 297
Stoyanov, S. *See under* Skumryev, V, **423**, 850
Stoykovich, M P. *See under* Kim, S O, **424**, 411
Strahl, B D. *See under* Anest, V, **423**, 659
Straight, A. *See under* Canman, J C, **424**, 1074
Strand, Å. Chloroplast to nucleus communication triggered by accumulation of Mg-protoporphyrinIX (*with* Asami, T, Alonso, J, Ecker, J R, Chory, J), *Letter to Nature*, **421**, 79
Strasser, B J. Who cares about the double helix?, *Commentary*, **422**, 803
Straubmeier, C. *See under* Greiner, J, **426**, 157
Straume, T. Measuring fast neutrons in Hiroshima at distances relevant to atomic-bomb survivors (*with* Rugel, G, Marchetti, A A, Ruhm, W, Korschinek, G, McAninch, J E, Carroll, K, Egbert, S, Faestermann, T, Knie, K, Martinelli, R, Wallner, A, Wallner, C), *Letter to Nature*, **424**, 539
Strauss, M A. *See under* Walter, F, **424**, 406
  See under Inada, N, **426**, 810
Stringer, C. Human evolution: Out of Ethiopia, *News and views*, **423**, 692
Strobeck, C. *See under* Coltman, D W, **426**, 655
Strobel, D F. *See under* Lellouch, E, **421**, 45
Stroebel, D. An atypical haem in the cytochrome b_6f complex (*with* Choquet, Y, Popot, J-L, Picot, D), *Article*, **426**, 413
Strogatz, S. Sync: The Emerging Science of Spontaneous Order, *Book review by* Collins, J J, **422**, 117
Strogatz, S H. *See under* Abrams, D M, **424**, 900
Strong, C. *See under* Skaletsky, H, **423**, 825
Strong, C M. *See under* Hillier, L W, **424**, 157
Stroud, J C. *See under* Han, A, **422**, 730
Strous, M. *See under* Kuypers, M M M, **422**, 608
Strowmatt, C. *See under* Hillier, L W, **424**, 157
Stuart, F M. High ^{3}He/^{4}He ratios in picritic basalts from Baffin Island and the role of a mixed reservoir in mantle plumes (*with* Lass-Evans, S, Fitton, J G, Ellam, R M), *Letter to Nature*, **424**, 57
Stuber, G D. *See under* Phillips, P E M, **422**, 614, **423**, 461
Stucki, M. *See under* Goldberg, M, **421**, 952
Stuhr-Hansen, N. *See under* Kubatkin, S, **425**, 698
Sturrock, E D. *See under* Natesh, R, **421**, 551
Sturrock, G A. *See under* Krol, M C, **421**, 131
Su, H T. Gigantic jets between a thundercloud and the ionosphere (*with* Hsu, R R, Chen, A B, Wang, Y C, Hsiao, W S, Lai, W C, Lee, L C, Sato, M, Fukunishi, H), *Letter to Nature*, **423**, 974
Suarez, R K. *See under* Darveau, C A, **421**, 714
Suber, P. Open access: other ways, *Correspondence*, **426**, 15
Subirana, J A. DNA discoveries through crystallography, *Correspondence*, **423**, 683
Sucena, E. Regulatory evolution of *shavenbaby/ovo* underlies multiple cases of morphological parallelism (*with* Delon, I, Jones, I, Payre, F, Stern, D L), *Letter to Nature*, **424**, 935
Sucre, M G. Venezuela: the o0ther side of the story (*with* Marcano, L, Padrón, R, Acosta, J, Burguillos, L), *Correspondence*, **422**, 257
Sudhof, T C. *See under* Missler, M, **423**, 939
Suetsugu, S. *See under* Yamazaki, D, **424**, 452
Sugahara, K. *See under* Mizuguchi, S, **423**, 443
Sugie, A. *See under* Uemura, M, **423**, 843
Sugimoto, K. *See under* Katou, Y, **424**, 1078
Sugita, Y. Audiovisual perception: Implicit estimation of sound-arrival time (*with* Suzuki, Y), *Brief communication*, **421**, 911
Sugiura, R. Feedback regulation of MAPK signalling by an RNA-binding protein (*with* Kita, A, Shimizu, Y, Shuntoh, H, Sio, S O, Kuno, T), *Letter to Nature*, **424**, 961
Sugiyama, F. *See under* Hirotsune, S, **423**, 91, **426**, 100
Sugiyama, T. *See under* Yamauchi, T, **423**, 762
Sui, G. *See under* Shi, Y, **422**, 735
Sui, J. *See under* Li, W, **426**, 450
Sulchek, T. *See under* Pinnaduwage, L A, **425**, 474
Sulitkova, J. *See under* Staller, P, **425**, 307
Sullivan, J L. *See under* Li, W, **426**, 450
Sullivan, M B. *See under* Rocap, G, **424**, 1042
  Cyanophages infecting the oceanic cyanobacterium *Prochlorococcus* (*with* Waterbury, J B, Chisholm, S W), *Letter to Nature*, **424**, 1047
  Corrigendum: Cyanophages infecting the oceanic cyanobacterium Prochlorococcus (*with* Waterbury, J B, Chisholm, S W), *Letter to Nature*, **426**, 584
Sullivan, N J. Accelerated vaccination for Ebola virus haemorrhagic fever in non-human primates (*with* Geisbert, T W, Geisbert, J B, Xu, L, Yang, Z-Y, Roederer, M, Koup, R A, Jahrling, P B, Nabel, G J), *Letter to Nature*, **424**, 681
Sullivan, T. *See under* Mounkes, L C, **423**, 298
Sulston, J E. *See under* Mungall, A J, **425**, 805
Sumiya, H. *See under* Irifune, T, **421**, 599
Summerbell, R C. *See under* Currie, C R, **423**, 461
Summers, T J. *See under* Thomas, J W, **424**, 788
Sumper, M. *See under* Schmitt, R, **424**, 499
Sun, A. *See under* Liou, Y-C, **424**, 556
Sun, H. *See under* Heilig, R, **421**, 601
  See under Hillier, L W, **424**, 157
Sun, J. Applied physics: Spintronics gets a magnetic flute, *News and views*, **425**, 359
Sun, W. Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas (*with* Bennett, V C, Eggins, S M, Kamenetsky, V S, Arculus, R J), *Letter to Nature*, **422**, 294
Sundar, V C. Fibre-optical features of a glass sponge (*with* Yablon, A D, Grazul, J L, Ilan, M, Aizenberg, J), *Brief communication*, **424**, 899
Sundheim, O. *See under* Aas, P A, **421**, 859
Sundquist, W I. *See under* Gu, Y, **424**, 21
Sundstrom, L. *See under* Hannonen, M, **421**, 910
Sung, B-J. Structure of the catalytic domain of human phosphodiesterase 5 with bound drug molecules (*with* Hwang, K Y, Jeon, Y H, Lee, J I, Heo, Y-S, Kim, J H, Moon, J, Yoon, J M, Hyun, Y-L, Kim, E, Eum, S J, Park, S-Y, Lee, J-O, Lee, T G, Ro, S, Cho, J M), *Letter to Nature*, **425**, 98
Sung, P. *See under* Krejci, L, **423**, 305
Sunstein, CR. Risk and Reason: Safety, Law, and the Environment, *Book review by* Pierrehumbert, R T, **422**, 263
Suntzeff, N B. *See under* Hamuy, M, **424**, 651
Supattapone, S. *See under* Deleault, N R, **425**, 717
Surgenor, D M. Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II, *Book review by* Tanford, C, Reynolds, J, **423**, 224
Surridge, C. Physiology: Machinations of the heart's strain gauge, *News and views*, **421**, 228
  Biophysics: Solution to haemoglobin's structural paradox, *News and views*, **421**, 493
  Genomics: A bumper harvest of potato genes, *News and views*, **421**, 709
  Plant cell biology: Ancients rings, *News and views*, **422**, 275
  RNA interference: Cereal adultery, *News and views*, **423**, 390
  Plant physiology, *News and views*, **424**, 385
  Plant development: Leaves by number, *News and views*, **426**, 237
  Plant physiology: Needles point to pollution, *News and views*, **426**, 784
Susanto, R D. *See under* Gordon, A L, **425**, 824
Susarla, S. *See under* Wang, H, **421**, 384
Suswillo, R. *See under* Lee, K, **424**, 389
Sutak, R. *See under* Tovar, J, **426**, 172
Suter, B. *See under* Chen, J, **424**, 228
Sutherland, W J. Parallel extinction risk and global distribution of languages and species, *Letter to Nature*, **423**, 276
Sutka, M. *See under* Tournaire-Roux, C, **425**, 393
Suto, Y. *See under* Inada, N, **426**, 810
Sutter, M. *See under* Gutmann, S, **424**, 699
Suttle, C A. *See under* Culley, A I, **424**, 1054
Sutton, M. *See under* Thomson, K S, **426**, 833
Sutton, M A. Extinction-induced upregulation in AMPA receptors reduces cocaine-seeking behaviour (*with* Schmidt, E F, Choi, K-H, Schad, C A, Whisler, K, Simmons, D, Karanian, D A, Monteggia, L M, Neve, R L, Self, D W), *Letter to Nature*, **421**, 70
Suwa, G. *See under* White, T D, **423**, 742
  See under Clark, J D, **423**, 747
  See under Hart, W K, **426**, 622
Suyama, M. *See under* Hillier, L W, **424**, 157
Suzuki, S. *See under* Ishii, H, **426**, 540
Suzuki, Y. *See under* Sugita, Y, **421**, 911
Svensson, C. *See under* Schön, J H, **422**, 92
Swartz, T E. *See under* Imaizumi, T, **426**, 302
Sweeney, A. Polarized light as a butterfly mating signal (*with* Jiggins, C, Johnsen, S), *Brief communication*, **423**, 31
Sweeney, H L. *See under* Coureux, P-D, **425**, 419
Sweeney, S T. *See under* Poskanzer, K E, **426**, 559
Swingler, S. HIV-1 Nef intersects the macrophage CD40L signalling pathway to promote resting-cell infection (*with* Brichacek, B, Jacque, J-M, Ulich, C, Zhou, J, Stevenson, M), *Letter to Nature*, **424**, 213
Switzer, J A. Enantiospecific electrodeposition of a chiral catalyst (*with* Kothari, H M, Poizot, P, Nakanishi, S, Bohannan, E W), *Letter to Nature*, **425**, 490
Sycamore, N. *See under* Mungall, A J, **425**, 805
Szabo, G. *See under* Aungst, J L, **426**, 623
Szakonyi, G. *See under* Li, D, **423**, 512, **425**, 102
Szczyglowski, K. *See under* Madsen, E B, **425**, 637
Székely, T. *See under* Blomqvist, D, **422**, 833
Szostak, J W. Molecular messages, *Concepts*, **423**, 689
Szpiro, G. Does the proof stack up?, *News feature*, **424**, 12
Szpiro, G G. Kepler's Conjecture: How Some of the Greatest Minds in History Helped Solve One of the Oldest Math Problems in the World, *Book review by* Sloane, N, **425**, 126

Tabata, S. *See under* Radutoiu, S, **425**, 585
  See under Madsen, E B, **425**, 637
Tabeta, K. *See under* Hoebe, K, **424**, 743
Tachezy, J. *See under* Tovar, J, **426**, 172
Taddei, N. *See under* Chiti, F, **424**, 805
Tadin, D. Perceptual consequences of centre-surround antagonism in visual motion processing (*with* Lappin, S, Gilroy, L A, Blake, R), *Letter to Nature*, **424**, 312
Tafforeau, P. *See under* Chaimanee, Y, **422**, 61
Tagami, T. *See under* Sakaguchi, N, **426**, 454
Taillefer, L. *See under* Doiron-Leyraud, N, **425**, 595
Taira, K. *See under* Yamauchi, T, **423**, 762
  See under Kawasaki, H, **423**, 838, **426**, 100
Takacs-Vellai, K. *See under* Vellai, T, **426**, 620
Takada, K. Superconductivity in two-dimensional CoO$_2$ layers (*with* Sakurai, H, Takayama-Muromachi, E, Izumi, F, Dilanian, R A, Sasaki, T), *Letter to Nature*, **422**, 53
Takagi, J. Complex between nidogen and laminin fragments reveals a paradigmatic β-propeller interface (*with* Yang, Y, Liu, J-H, Wang, J-h, Springer, T A), *Letter to Nature*, **424**, 969
Takahashi, K. Role of Eras in promoting tumour-like properties in mouse embryonic stem cells (*with* Mitsui, K, Yamanaka, S), *Letter to Nature*, **423**, 541
Takahashi, S. *See under* Hirotsune, S, **423**, 91
  See under Uemura, M, **423**, 843, **426**, 100
Takahashi, T. *See under* Souma, S, **423**, 65
  See under Sakaguchi, N, **426**, 454
Takahashi, T T. *See under* Bala, A D S, **424**, 771
Takahashi, Y. *See under* Takasugi, N, **422**, 438
Takaoka, A. Integration of interferon-α/β signalling to p53 responses in tumour suppression and antiviral defence (*with* Hayakawa, S, Yanai, H, Stoiber, D, Negishi, H, Kikuchi, H, Sasaki, S, Imai, K, Shibue, T, Honda, K, Taniguchi, T), *Article*, **424**, 516
Takasugi, N. The role of presenilin cofactors in the γ-secretase complex (*with* Tomita, T, Hayashi, I, Tsuruoka, M, Niimura, M, Takahashi, Y, Thinakaran, G, Iwatsubo, T), *Letter to Nature*, **422**, 438
Takayama, Y. *See under* Ishii, H, **426**, 540
Takayama-Muromachi, E. *See under* Takada, K, **422**, 53
Takeda, S. Structure of the core domain of human cardiac troponin in the Ca^{2+}-saturated form (*with* Yamashita, A, Maeda, K, Maeda, Y), *Article*, **424**, 35
Takekawa, S. *See under* Yamauchi, T, **423**, 762
Takemaru, K-I. Chibby, a nuclear β-catenin-associated antagonist of the Wnt/Wingless pathway (*with* Yamaguchi, S, Lee, Y S, Zhang, Y, Carthew, R W, Moon, R T), *Letter to Nature*, **422**, 905
Takenawa, T. *See under* Yamazaki, D, **424**, 452
Takeyama, K-I. *See under* Ohtake, F, **423**, 545
Talagrand, O. *See under* Yano, J-I, **421**, 36
Tallada, V A. *See under* Wood, V, **421**, 94
Tally, M. *See under* Van Laere, A-S, **425**, 832
Tamagnone, L. *See under* Serini, G, **424**, 391, **424**, 974
Tamaki, S. *See under* Hayama, R, **422**, 719
Tamlyn-Hall, G. *See under* Mungall, A J, **425**, 805
Tan, A Y Y. *See under* Zhang, L I, **424**, 201
Tanaka, H. *See under* Itoh, Y, **422**, 173
  See under Katou, Y, **424**, 1078
Tanaka, I. *See under* Ose, T, **422**, 185
Tanaka, Y. *See under* Mal, N K, **421**, 350
  See under Itoh, Y, **422**, 173
Taneike, M. Creep-strengthening of steel at high temperatures using nano-sized carbonitride dispersions (*with* Abe, F, Sawada, K), *Letter to Nature*, **424**, 294
Tanford, C. Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II (*by* Surgenor, D M), *Book review*, **423**, 224
Tang, F. Regulated degradation of a class V myosin receptor directs movement of the yeast vacuole (*with* Kauffman, E J, Novak, J L, Nau, J J, Catlett, N L, Weisman, L S), *Letter to Nature*, **422**, 87
Tang, J. *See under* McFarland, E W, **421**, 616
Tang, R. *See under* Han, S, **425**, 196
Tang, X D. Haem can bind to and inhibit mammalian calcium-dependent Slo1 BK channels (*with* Xu, R, Reynolds, M F, Garcia, M L, Heinemann, S H, Hoshi, T), *Letter to Nature*, **425**, 531
Taniguchi, M. *See under* Serini, G, **424**, 391, **424**, 974
  See under Ishii, H, **426**, 540
Taniguchi, T. *See under* Takaoka, A, **424**, 516
Tanisaka, T. *See under* Nakazaki, T, **421**, 170
Tanner, W. Getting to the heart of transpiration in plants, *Correspondence*, **424**, 613
Tanov, Y. *See under* Nishimoto, S, **424**, 1071
Tanovic, M. *See under* Wang, H, **421**, 384
Tanvir, N R. *See under* Hjorth, J, **423**, 847
Tao, S. *See under* Dajee, M, **421**, 639
Tarasevitch, A. *See under* Sokolowski-Tinten, K, **422**, 287
Tarlow, E M. *See under* Wikelski, M, **423**, 704
Tarzia, G. *See under* Fu, J, **425**, 91
Taub, J. Retraction: A cytosolic catalase is needed to extend adult lifespan in *C. elegans daf-C* and *clk-1* mutant (*with* Lau, J F, Ma, C, Hahn, J H, Hoque, R, Rothblatt, J, Chalfie, M), *Letter to Nature*, **421**, 764
Taussig, C. *See under* Moller, S, **426**, 166
Tautz, D. Evolutionary biology: Splitting in space, *News and views*, **421**, 225
Tautz, F S. *See under* Eremtchenko, M, **425**, 602
Tayebi, M. *See under* White, A R, **422**, 80
Taylor, A F. RecBCD enzyme is a DNA helicase with fast and slow motors of opposite polarity (*with* Smith, G R), *Letter to Nature*, **423**, 889
Taylor, A J. *See under* Reeves, W H, **424**, 511

Taylor, A M R. *See under* Stewart, G S, **421**, 961
Taylor, B W. *See under* Elliot, J L, **424**, 165
Taylor, G K. Flying and swimming animals cruise at a Strouhal number tuned for high-power efficiency (*with* Nudds, R L, Thomas, A L R), *Letter to Nature*, **425**, 707
Taylor, I A. *See under* Xiao, B, **421**, 652
Taylor, K. *See under* Wood, V, **421**, 94
Taylor, M A. *See under* Miller, H, **426**, 19
Taylor, M C. *See under* Gaunt, M W, **421**, 936
Taylor, R G. *See under* Wood, V, **421**, 94
Taylor, W R. A tangled problem (*with* Lin, K), *Concepts*, **421**, 25
Taylor, W W. *See under* Krause, A E, **426**, 282
Teasdale, M E. *See under* Borozdin, K N, **422**, 277
Tebabi, P. *See under* Vanhamme, L, **422**, 83
Tedford, R H. An Arctic mammal fauna from the Early Pliocene of North America (*with* Harington, C R), *Letter to Nature*, **425**, 388
Telfer, P. *See under* Walsh, P D, **422**, 611
Telford, M J. *See under* Bourlat, S J, **424**, 925
Telka, A M. *See under* Zazula, G D, **423**, 603
Teng, S. *See under* Li, X, **422**, 618
Tenner, E. Our Own Devices: The Past and Future of Body Technology, *Book review by* Segal, H P, **424**, 998
Terabe, H. *See under* Ono, M, **424**, 637
Teraishi, M. *See under* Nakazaki, T, **421**, 170
Terasawa, T. *See under* Seki, K, **422**, 589
Terauchi, K. *See under* Kikuchi, K, **421**, 167
Terauchi, Y. *See under* Yamauchi, T, **423**, 762
Terce, F. *See under* Martinez, L O, **421**, 75
Terrall, M. The Man Who Flattened the Earth: Maupertuis and the Sciences in the Enlightenment, *Book review by* Shapin, S, **423**, 482
Tersoff, J. Nanotechnology: A barrier falls, *News and views*, **424**, 622
  See under Detavernier, C, **426**, 641
Teslovich, T M. *See under* Ansley, S J, **425**, 628
Tessier-Lavigne, M. *See under* Nishiyama, M, **423**, 990
  See under Serini, G, **424**, 391, **424**, 974
Tester, J. *See under* Mungall, A J, **425**, 805
Tettelin, H. *See under* Read, T D, **423**, 81
Teztlaff, G. *See under* Mudelsee, M, **425**, 166
Thadani, A N. *See under* Huang, Y, **424**, 146
Thamdrup, B. *See under* Dalsgaard, T, **422**, 606
Thao, L. *See under* Kamal, A, **425**, 407
Tharakan, P. *See under* Hall, C, **426**, 318
Thauer, R K. *See under* Kruger, M, **426**, 878
Thayer, S P. Hedgehog is an early and late mediator of pancreatic cancer tumorigenesis (*with* Pasca di Magliano, M, Heiser, P W, Nielsen, C M, Roberts, D J, Lauwers, G Y, Qi, Y P, Gysin, S, Fernandez-del Castillo, C, Yajnik, V, Antoniu, B, McMahon, M, Warshaw, A L, Hebrok, M), *Letter to Nature*, **425**, 851
The International HapMap Consortium. The International HapMap Project, *Feature*, **426**, 789
Theaker, A J. *See under* Mungall, A J, **425**, 805
Theise, N D. Flexible arrangement (*with* Wilmut, I), *Concepts*, **425**, 21
Theobold, J A. Controlling molecular desposition and layer structure with supramolecular surface assemblies (*with* Oxtoby, N S, Philips, M A, Champness, N R, Beton, P H), *Letter to Nature*, **424**, 1029
Thibault, M. *See under* Walsh, P D, **422**, 611
Thibault, P. *See under* Houde, M, **425**, 402
Thibeault, D. *See under* Lamarre, D, **426**, 186, **426**, 314
Thiele, A. Neuronal synchrony does not correlate with motion coherence in cortical area MT (*with* Stoner, G), *Letter to Nature*, **421**, 366
Thinakaran, G. *See under* Takasugi, N, **422**, 438
Thisse, B. *See under* Agathon, A, **424**, 448
Thisse, C. *See under* Agathon, A, **424**, 448
Thitamadee, S. *See under* Bonke, M, **426**, 181
Thode, G. *See under* Wood, V, **421**, 94
Tholen, D J. *See under* Elliot, J L, **424**, 165
Thomas, A L R. *See under* Taylor, G K, **425**, 707
Thomas, B. *See under* Thomson, K S, **426**, 833
Thomas, C. Diabetes: Molecular suspect fingered, *News and views*, **424**, 265
  Reproductive biology: Forming an arrangement, *News and views*, **425**, 33
  Cancer: Location, location, location, *News and views*, **425**, 34
  Cell biology: Enlightened messages, *News and views*, **426**, 27
  Prion diseases: Untangling toxicity, *News and views*, **426**, 28
Thomas, D W. *See under* Mungall, A J, **425**, 805
Thomas, J B. *See under* Yoshikawa, S, **422**, 583
Thomas, J W. Comparative analyses of multi-species sequences from targeted genomic regions (*with* Touchman, J W, Blakesley, R W, Bouffard, G G, Beckstrom-Sternberg, S M, Margulies, E H, Blanchette, M, Siepel, A C, Thomas, P J, McDowell, J C, Maskeri, B, Hansen, N F, Schwartz, M S, Weber, R J, Kent, W J, Karolchik, D, Bruen, T C, Bevan, R, Cutler, D J, Schwartz, S, Elnitski, L, Idol, J R, Prasad, A B, Lee-Lin, S-Q, Maduro, V V B, Summers, T J, Portnoy, M E, Dietrich, N L, Akhter, N, Ayele, K, Benjamin, B, Cariaga, K, Brinkley, C P, Brooks, S Y, Granite, S, Guan, X, Gupta, J, Haghighi, P, Ho, S-L, Huang, M C, Karlins, E, Laric, P L, Legaspi, R, Lim, M J, Maduro, Q L, Masiello, C A, Mastrian, S D, McCloskey, J C, Pearson, R, Stantripop, S, Tiongson, E E, Tran, J T, Tsurgeon, C, Vogt, J L, Walker, M A, Wetherby, K D, Wiggins, L S, Young, A C, Zhang, L-H, Osoegawa, K, Zhu, B, Zhao, B, Shu, C L, De Jong, P J, Lawrence, C E, Smit, A F, Chakravarti, A, Haussler, D, Green, P, Miller, W, Green, E D), *Letter to Nature*, **424**, 788
Thomas, P J. *See under* Thomas, J W, **424**, 788
Thomas, R. *See under* McCall, B J, **422**, 500
Thomas, S. Information Feudalism: Who Owns the Knowledge Economy? (*by* Drahos, P, Braithwaite, J), *Book review*, **421**, 577
Thomas-Osip, J E. *See under* Elliot, J L, **424**, 165
Thomason, B. *See under* Read, T D, **423**, 81
  See under Bergthorsson, U, **424**, 197
Thompson, F C. *See under* Ashworth, A C, **423**, 135
Thompson, J C. *See under* Wu, L, **421**, 942
Thompson, J R. *See under* Kang, H J, **423**, 522, **426**, 140
Thompson, M. *See under* White, N, **426**, 334
Thompson, S. *See under* Hattar, S, **424**, 76
Thomson, J A. Genes for Africa: Genetically Modified Crops in the Developing World, *Book review by* Conway, G, **421**, 478
Thomson, J M. *See under* Gaucher, E A, **425**, 285
Thomson, K. Evolution's Captain: The Tragic Fate of Robert FitzRoy, the Man who Sailed Charles Darwin Around the World (*by* Nichols, P), *Book review*, **425**, 18
  FitzRoy: The Remarkable Story of Darwin's Captain and the Invention of the Weather Forecast (*by* Gribbin, J, Gribbin, M), *Book review*, **425**, 18
Thomson, K S. A larval Devonian lungfish (*with* Sutton, M, Thomas, B), *Letter to Nature*, **426**, 833
Thomson, R E. Constrained circulation at Endeavour ridge facilitates colonization by vent larvae (*with* Mihaly, S F, Rabinovich, A B, McDuff, R E, Veirs, S R, Stahr, F R), *Letter to Nature*, **424**, 545
Thordarson, P. Epoxidation of polybutadiene by a topologically linked catalyst (*with* Bijsterveld, E J A, Rowan, A E, Nolte, R J M), *Letter to Nature*, **424**, 915
Thorpe, A. *See under* Mungall, A J, **425**, 805
Thro, A M. Classical plant breeding is the route to food security (*with* Zankowski, P), *Correspondence*, **422**, 559
Thundat, T. *See under* Pinnaduwage, L A, **425**, 474
Thunell, R. *See under* Visser, K, **421**, 152
Thwaite, J E. *See under* Read, T D, **423**, 81
Ti, W X. *See under* Zhou, X J, **423**, 398
Tian, D. Fitness costs of R-gene-mediated resistance in *Arabidopsis thaliana* (*with* Traw, M B, Chen, J Q, Kretman, M, Bergelson, J), *Letter to Nature*, **423**, 74
Tian, M. *See under* Chaudhuri, J, **422**, 726
Tibi, R. Remote triggering of deep earthquakes in the 2002 Tonga sequences (*with* Wiens, D A, Inoue, H), *Letter to Nature*, **424**, 921
Ticehurst, D R. *See under* Elliot, J L, **424**, 165
Ticknor, C. *See under* Regal, C A, **424**, 47
Tilloy, F. *See under* Treiner, E, **422**, 164, 423, 1018
Tilman, D. Reply: Ecology: Is fertilization efficiency misleading? (*with* Cassman, K G, Matson, P A, Naylor, R, Polasky, S), *Brief communication*, **422**, 398
Tilstone, C. Public input sought on transgenic farming, *News*, **423**, 672
  Vital statistics, *News feature*, **424**, 610
Timmermans, M. *See under* Kim, M, **424**, 438, **425**, 102
Timmis, J N. *See under* Huang, C Y, **422**, 72
Timusk, T. Obituary: Bertram N. Brockhouse (1918–2003), *News and views*, **426**, 617
Tin-Wollam, A. *See under* Skaletsky, H, **423**, 825
  See under Hillier, L W, **424**, 157
Ting, C S. *See under* Rocap, G, **424**, 1042
Tiongson, E E. *See under* Thomas, J W, **424**, 788
Tirnauer, J S. *See under* Canman, J C, **424**, 1074
Tisi, D. *See under* van Montfort, R L M, **423**, 773
Tittel, W. *See under* Marcikic, I, **421**, 509
Tivey, A. *See under* Wood, V, **421**, 94
Tjian, R. *See under* Levine, M, **424**, 147
Tlurekian, K K. Obituary: Harmon Craig (1926–2003), *News and views*, **423**, 701
To, W. *See under* Cua, D J, **421**, 744
Tobalske, B W. Comparative power curves in bird flight (*with* Hedrick, T L, Dial, K P, Biewener, A A), *Letter to Nature*, **421**, 363
Tobe, K. *See under* Yamauchi, T, **423**, 762
Tobey, R. *See under* Paul, A, **421**, 51
Toca-Herrera, J L. *See under* Williams, P M, **422**, 446
Todd, J A. *See under* Ueda, H, **423**, 506
Todd, L. *See under* Kappelman, J, **426**, 549
Tohyama, C. *See under* Ohtake, F, **423**, 545
Tokiwa, Y. *See under* Custers, J, **424**, 524
Tokura, Y. *See under* Kang, H J, **423**, 522
  See under Kimura, T, **426**, 55, **426**, 140
Tolley, L. *See under* Scholtz, G, **421**, 806
Tolonen, A. *See under* Rocap, G, **424**, 1042
Tomasallo, C. *See under* Stellman, J M, **422**, 681
Tomasello, M. Constructing a Language: A Usage-Based Theory of Language Acquisition, *Book review by* Clark, E V, **425**, 768
Tomeoka, K. Interplanetary dust from the explosive dispersal of hydrated asteroids by impacts (*with* Kiriyama, K, Nakamura, K, Yamahana, Y, Sekine, T), *Letter to Nature*, **423**, 60
Tomita, M. High-temperature superconductor bulk magnets that can trap magnetic fields of over 17 tesla at 29K (*with* Murakami, M), *Letter to Nature*, **421**, 517
Tomita, T. *See under* Takasugi, N, **422**, 438
Tomlin, S. Super-cool theories secure physics prize, *News*, **425**, 548
Tomlinson, C. *See under* Hillier, L W, **424**, 157
Tong, L. Subwavelength-diameter silica wires for low-loss optical wave guiding (*with* Gattass, R R, Ashcom, J B, He, S, Lou, J, Shen, M, Maxwell, I, Mazur, E), *Letter to Nature*, **426**, 816
Tong, W-G. *See under* Zhang, J, **425**, 836
Tonks, N K. *See under* Salmeen, A, **423**, 769
Toon, O B. Atmospheric science: African dust in Florida clouds, *News and views*, **424**, 623
Tootle, T L. The transcription factor Eyes absent is a protein tyrosine phosphatase (*with* Silver, S J, Davies, E L, Newman, V, Latek, R R, Mills, I A, Selengut, J D, Parlikar, B E W, Rebay, I), *Letter to Nature*, **426**, 299
Toplis, M J. *See under* Meyzen, C M, **421**, 731
Tops, B J B. *See under* Caudy, A M, **425**, 411
Torchin, M E. Introduced species and their missing parasites (*with* Lafferty, K D, Dobson, A P, McKenzie, V J, Kuris, A M), *Letter to Nature*, **421**, 628
Torii, K. *See under* Fox, D W, **422**, 284
Torimaru, Y. *See under* Wang, X, **422**, 897
Törnqvist, T E. Impact factors aren't top journals' sole attraction, *Correspondence*, **423**, 480
Torrents, D. *See under* Hillier, L W, **424**, 157
Torres, G. *See under* Konacki, M, **421**, 507
Torres, M A. *See under* Foreman, J, **422**, 442
Tortora, P. *See under* Bertotti, B, **425**, 374
Toschek, P E. Quantum electronics: The electron is cool, *News and views*, **422**, 822
Tostain, O. *See under* Weimerskirch, H, **421**, 333
Touchman, J W. *See under* Thomas, J W, **424**, 788
Tountas, N A. *See under* Selker, E U, **422**, 893
Tourasse, N. *See under* Read, T D, **423**, 81
Tournaire-Roux, C. Cytosolic pH regulates root water transport during anoxic stress through gating of aquaporins (*with* Sutka, M, Javot, H, Gout, E, Gerbeau, P, Luu, D-T, Bligny, R, Maurel, C), *Letter to Nature*, **425**, 393
Tovar, J. Mitochondrial remnant organelles of Giardia function in iron-sulphur protein maturation (*with* Leon-Avila, G, Sanchez, L B, Sutak, R, Tachezy, J, van der Glezen, M, Hernández, M, Müller, M, Lucocq, J M), *Letter to Nature*, **426**, 172
Tovarelli, O. *See under* Custers, J, **424**, 524
Tovmassian, G. *See under* Greiner, J, **426**, 157
Townsend, E. *See under* Campbell, S, **425**, 559
Tozer, S W. *See under* Radovan, H A, **425**, 51
Traas, J. *See under* Reinhardt, D, **426**, 255
Tracey, A. *See under* Mungall, A J, **425**, 805
Tracey, K J. *See under* Wang, H, **421**, 384
Tran, H G. *See under* Imaizumi, T, **426**, 302
Tran, J T. *See under* Thomas, J W, **424**, 788
Trask, B. *See under* Heilig, R, **421**, 601
Traw, M B. *See under* Tian, D, **423**, 74
Trefil, J. Cassell's Laws of Nature: An A-Z of Laws and Principles Governing the Workings of Our Universe/The Nature of Science: An A-Z Guide to the Laws and Principles Governing Our Universe, *Book review by* Gratzer, W, **421**, 578
Tregenza, T. Evolution: The battle between the sexes, *News and views*, **423**, 929
Treiner, E. Selection of evolutionarily conserved mucosal-associated invariant T cells by MR1 (*with* Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O), *Letter to Nature*, **422**, 164
  Corrigendum: Selection of evolutionary conserved mucosal-associated invariant T cells by MR1 (*with* Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O), *Letter to Nature*, **423**, 1018
Tremblay, S. Somatosensory basis of speech production (*with* Shiller, D M, Ostry, D J), *Letter to Nature*, **423**, 866
Trewavas, A J. *See under* Goklany, I M, **423**, 115
Trézéguet, V. *See under* Pebay-Peyroula, E, **426**, 39
Trieloff, M. Structure and thermal history of the H-chondrite parent asteroid revealed by thermochronometry (*with* Jessberger, E K, Herrwerth, I, Hopp, J, Flénl, C, Ghelis, M, Bourot-Denise, M, Pellas, P), *Letter to Nature*, **422**, 502
Trimboll, A. *See under* Wu, L, **421**, 942
Trinkaus, E. *See under* Zilhao, J, **424**, 490
Triscone, J-M. *See under* Ahn, C H, **424**, 1015
Tromans, A. Neurobiology: Motor proteins branch out, *News and views*, **424**, 503
  Neurobiology: The eyes have it, *News and views*, **425**, 143
  Developmental biology: A tadpole's tale, *News and views*, **425**, 250
  See under Mungall, A J, **425**, 805
  Microbiology: Destructive approach, *News and views*, **426**, 23
Tromas, A. Echolocation: Volume control, *News and views*, **423**, 815
Trompouki, E. CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members (*with* Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G), *Letter to Nature*, **424**, 793
Trono, D. *See under* Mangeat, B, **424**, 99
Trowe, T. *See under* Knaut, H, **421**, 279
Trudell, J R. *See under* Kash, T L, **421**, 272
Trybou, A. *See under* Heilig, R, **421**, 601
Tsai, A P. *See under* Abe, E, **421**, 347
Tsai, J S. *See under* Pashkin, Yu A, **421**, 823
Tsai, L. *See under* Nishiyama, M, **423**, 990
Tsakiris, G D. *See under* Tzallas, P, **426**, 267
Tsantrizos, Y S. *See under* Lamarre, D, **426**, 186, **426**, 314
Tsao, T-S. *See under* Bogan, J S, **425**, 727
Tsichritzis, T. *See under* Trompouki, E, **424**, 793
Tsien, R W. *See under* Aravanis, A M, **423**, 643
Tso, A W K. *See under* Bates, S H, **421**, 856
Tsubota, M. *See under* Finne, A P, **424**, 1022
Tsuchida, A. *See under* Yamauchi, T, **423**, 762
Tsuda, M. P2X₄ receptors induced in spinal microglia gate tactile allodynia after nerve injury (*with* Shigemoto-Mogami, Y, Koizumi, S, Mizokoshi, A, Kohsaka, S, Salter, M W, Inoue, K), *Letter to Nature*, **424**, 778

Tsuei, C C. *See under* Hilgenkamp, H, **422**, 50
Tsuno, N H. *See under* Yamauchi, T, **423**, 762
Tsunoda, M. *See under* Yamauchi, T, **423**, 762
Tsurgeon, C. *See under* Thomas, J W, **424**, 788
Tsuruoka, M. *See under* Takasugi, N, **422**, 438
Tu, Y-F. *See under* Ren, S-X, **422**, 888
Tubby, B. *See under* Mungall, A J, **425**, 805
Tuck, A. Impact factors: a tool of the sterile audit culture, *Correspondence*, **424**, 14
Tudhope, S. Global change: The past and future of El Niño (*with* Collins, M), *News and views*, **424**, 261
Tuomilehto, J. *See under* Ueda, H, **423**, 506
Tuomilehto-Wolf, E. *See under* Ueda, H, **423**, 506
Turchin, P. Evolution in population dynamics, *News and views*, **424**, 257
  Complex Population Dynamics: A Theoretical/Empirical Synthesis, *Book review by* Stenseth, N C, **426**, 18
Turelli, P. *See under* Mangeat, B, **424**, 99
Turini, P. *See under* Galli, C, **424**, 635, **425**, 680
Turner, E L. *See under* Inada, N, **426**, 810
Turner, J L. An extragalactic supernebula confined by gravity (*with* Beck, S C, Crosthwaite, L P, Larkin, J E, McLean, I S, Meier, D S), *Letter to Nature*, **423**, 621
Turner, R. Molecular physiology: Tuned for longer life, *News and views*, **423**, 125
Turner, S. *See under* Miller, R F, **425**, 501
Tuschi, T. Functional genomics: RNA sets the standard, *News and views*, **421**, 220
Tutin, C E G. *See under* Walsh, P D, **422**, 611
Tweed, D B. *See under* Niemeler, M, **422**, 76
Twells, R C J. *See under* Ueda, H, **423**, 506
Tyers, M. From genomics to proteomics (*with* Mann, M), *Insight overview*, **422**, 193
  See under Pintard, L, **425**, 311
Tyler, S. *See under* Rahn, T, **424**, 918
Tyree, M T. The ascent of water, *Concepts*, **423**, 923
Tyrrell, D. Cold Wars: The Fight Against the Common Cold (*with* Fielder, M), *Book review by* Dimmock, N, **422**, 379
Tzallas, P. Direct observation of attosecond light bunching (*with* Charalambidis, D, Papadoglannis, N A, Witte, K, Tsakiris, G D), *Letter to Nature*, **426**, 267

Ubersax, J A. Targets of the cyclin-dependent kinase Cdk1 (*with* Woodbury, E L, Quang, P N, Paraz, M, Blethrow, J D, Shah, K, Shokat, K M, Morgan, D O), *Letter to Nature*, **425**, 859
Uchida, S. *See under* McElroy, K, **422**, 592
  See under Zhou, X J, **423**, 398
  See under Yamauchi, T, **423**, 762
  See under Peumans, P, **425**, 158
Uchida, T. *See under* Liou, Y-C, **424**, 556
Uchiyama, Y. *See under* Nishimoto, S, **424**, 1071
Udem, Th. *See under* Baltuška, A, **421**, 611, **422**, 189
Ueda, H. Association of the T-cell regulatory gene *CTLA4* with susceptibility to autoimmune disease (*with* Howson, J M M, Esposito, L, Heward, J, Snook, H, Chamberlain, G, Rainbow, D B, Hunter, K M D, Smith, A N, Di Genova, G, Herr, M H, Dahlman, I, Payne, F, Smyth, D, Lowe, C, Twells, R C J, Howlett, S, Healy, B, Nutland, S, Rance, H E, Everett, V, Smink, L J, Lam, A C, Cordell, H J, Walker, N M, Bordin, C, Hulme, J, Motzo, C, Cucca, F, Hess, J F, Metzker, M L, Rogers, J, Gregory, S, Allahabadia, A, Nithiyananthan, R, Tuomilehto-Wolf, E, Tuomilehto, J, Bingley, P, Gillespie, K M, Undlien, D E, Ronningen, K S, Guja, C, Ionescu-Tîrgovişte, C, Savage, D A, Maxwell, A P, Carson, D J, Patterson, C C, Franklyn, J A, Clayton, D G, Peterson, L B, Wicker, L S, Todd, J A, Gough, S C L), *Article*, **423**, 506
Uefuji, H. *See under* Ogita, S, **423**, 823
Uehlein, N. The tobacco aquaporin NtAQP1 is a membrane CO_2 pore with physiological functions (*with* Lovisolo, C, Siefritz, F, Kadenhoff, R), *Letter to Nature*, **425**, 734
Uejima, H. *See under* Itoh, Y, **422**, 173
Uemura, M. Structure in the early afterglow light curve of the γ-ray burst of 29 March 2003 (*with* Kato, T, Ishioka, R, Yamaoka, H, Monard, B, Nogami, D, Maehara, H, Sugie, A, Takahashi, S), *Letter to Nature*, **423**, 843
Ueshima, R. Single-gene speciation by left-right reversal (*with* Asami, T), *Brief communication*, **425**, 679
Uhlmann, F. *See under* Higuchi, T, **426**, 780
Uiberacker, M. *See under* Baltuška, A, **421**, 611, **422**, 189
Ulanowicz, R E. *See under* Krause, A E, **426**, 282
Ulfbeck, D. *See under* Bizzarro, M, **421**, 931
Ulich, C. *See under* Swingler, S, **424**, 213
Ulijn, R V. *See under* Flitsch, S L, **421**, 219
Ulloa, L. *See under* Wang, H, **421**, 384
Ullrich, J. *See under* Schulz, M, **422**, 48
Ulrich, H D. *See under* Stelter, P, **425**, 188
Umbanhowar, P. Granular materials: Shaken sand — a granular fluid?, *News and views*, **424**, 886
Umeda, H. First-generation black-hole-forming supernovae and the metal abundance pattern of a very iron-poor star (*with* Nomoto, K), *Letter to Nature*, **422**, 871
Umehara, Y. *See under* Radutoiu, S, **425**, 585
Umetsu, D T. *See under* McIntire, J J, **425**, 576
Umetsu, S E. *See under* McIntire, J J, **425**, 576
Underhill, P A. *See under* McIntire, J J, **425**, 576
Undlien, D E. *See under* Ueda, H, **423**, 506
Unger, H. *See under* Diebold, S S, **424**, 324
Unni, A K. *See under* Huang, Y, **424**, 146
Unwin, N. *See under* Miyazawa, A, **423**, 949
Urbanek, C. *See under* Faupl, P, **426**, 621
Urbina, J A. *See under* Mendoza, C, **421**, 473
Ureta-Vidal, A. *See under* Heilig, R, **421**, 601
Ursin, R. *See under* Pan, J-W, **423**, 417
Uschmann, I. *See under* Sokolowski-Tinten, K, **422**, 287
Usheva, A. *See under* Choi, C H, **424**, 965
Ussery, D. *See under* Wood, V, **421**, 94
Ustinov, A V. *See under* Wallraff, A, **425**, 155
Uyama, T. *See under* Mizuguchi, S, **423**, 443
Uzan, J-P. *See under* Luminet, J-P, **425**, 593

Vacchi, A. *See under* Casolino, M, **422**, 680
Vacherie, B. *See under* Heilig, R, **421**, 601
Vacun, G. *See under* Knaut, H, **421**, 279
Vågbø, C B. *See under* Aas, P A, **421**, 859
Vaglio, P. *See under* Xu, L, **425**, 316
Vahala, K. Optical microcavities, *Insight review article*, **424**, 839
Vahala, K J. *See under* Armani, D K, **421**, 925
Vähäsöyrinki, M. *See under* Niven, J E, **421**, 630
Vaidya, S. *See under* Carlip, S, **421**, 498
Valdembri, D. *See under* Serini, G, **424**, 391, **424**, 974
Valdes, P J. *See under* Spicer, R A, **421**, 622
Valle, M. *See under* Rawat, U B S, **421**, 87
Vallee, R B. A magnificent machine (*with* Hook, P), *News and views*, **421**, 701
Valley, J W. *See under* Schulze, D J, **423**, 68
Valtuena, S. *See under* Serafini, M, **424**, 1013
van Amerongen, G. *See under* Fouchier, R A M, **423**, 240
Van Assche, G. *See under* Grosshans, F, **421**, 238
van Bebber, F. *See under* Knaut, H, **421**, 279
van Blaaderen, A. *See under* Yethiraj, A, **421**, 513
van Breugel, W J M. *See under* Stevens, J A, **425**, 264
Van de Walle, C G. Universal alignment of hydrogen levels in semiconductors, insulators and solutions (*with* Neugebauer, J), *Letter to Nature*, **423**, 626
Van Den Abbeele, J. *See under* Vanhamme, L, **422**, 83
van den Bogaard, P. *See under* Duggen, S, **422**, 602
van den Heuvel, E P J. *See under* Hjorth, J, **423**, 847
  Astrophysics: Testing time for gravity, *News and views*, **426**, 504
van den Hoogen, B G. *See under* Fouchier, R A M, **423**, 240
van der Glezen, M. *See under* Tovar, J, **426**, 172
van der Klis, M. *See under* Chakrabarty, D, **424**, 42
  See under Wijnands, R, **424**, 44
van der Marel, D. Quantum critical behaviour in a high-Tc superconductor (*with* Molegraaf, H J A, Zaanen, J, Nussinov, Z, Carbone, F, Damascelli, A, Eisaki, H, Greven, M, Kes, P H, Li, M), *Letter to Nature*, **425**, 271
Van der Molen, S. *See under* González-José, R, **425**, 62
van der Putten, W H. *See under* De Deyn, G B, **422**, 711
van Doornum, G J J. *See under* Fouchier, R A M, **423**, 240
van Eeden, F. *See under* Hurlstone, A F L, **425**, 633
van Endert, P. *See under* Guermonprez, P, **425**, 397
Van Etten, R A. *See under* Neumann, C A, **424**, 561
van Genderen, M H P. *See under* Meijer, E W, **426**, 128
van Goethem, I D A. *See under* Eckstein-Ludwig, U, **424**, 957
van Hecke, M. *See under* Fenistein, D, **425**, 256
van Heel, M. *See under* Klaholz, B P, **421**, 90
Van Keuren, M L. *See under* Jones, J M, **425**, 721
Van Komen, S. *See under* Krejci, L, **423**, 305
Van Laere, A-S. A regulatory mutation in *IGF2* causes a major QTL effect on muscle growth in the pig (*with* Nguyen, M, Braunschweig, M, Nezer, C, Collette, C, Moreau, L, Archibald, A L, Haley, C S, Buys, N, Tally, M, Andersson, G, Georges, M, Andersson, L), *Letter to Nature*, **425**, 832
van Loon, A J T. Peer review: recognition via year-end statements, *Correspondence*, **423**, 116
Van Montagu, M. Obituary: Jeff Schell (1935–2003), *News and views*, **423**, 934
van Montfort, R L M. Oxidation state of the active-site cysteine in protein tyrosine phosphatase 1B (*with* Congreve, M, Tisi, D, Carr, R, Jhoti, H), *Letter to Nature*, **423**, 773
van Noordwijk, A J. Climate change: The earlier bird, *News and views*, **422**, 29
van Soest, R W M. *See under* Hooper, J N A, **421**, 791
Van Tonder, G J. correction: Visual structure of a Japanese Zen garden (*with* Lyons, M J, Ejima, Y), *Brief communication*, **421**, 230
van Veen, H W. *See under* Venter, H, **426**, 866
van Westrenen, W. *See under* Rama Murthy, V, **423**, 163
Van Xong, H. *See under* Vanhamme, L, **422**, 83
Van-Exter, S. *See under* Genty, D, **421**, 833
VanBrunt, A. *See under* Hillier, L W, **424**, 157
Vanden Bout, P. *See under* Solomon, P, **426**, 636
Vandermeer, J H. Population Ecology: First Principles (*with* Goldberg, D E), *Book review by* Hastings, A, **424**, 881
Vanek, M. *See under* Ludwig, M-G, **425**, 93
Vanhamme, L. Apolipoprotein L-I is the trypanosome lytic factor of human serum (*with* Paturiaux-Hanocq, F, Poelvoorde, P, Nolan, D P, Lins, L, Van Den Abbeele, J, Pays, A, Tebabi, P, Van Xong, H, Jacquet, A, Moguilevsky, N, Dieu, M, Kane, J P, De Baetselier, P, Brasseur, R, Pays, E), *Letter to Nature*, **422**, 83
Vanstreels, E. *See under* Wood, V, **421**, 94
Varki, A. Open access: the JCI has already shown its works, *Correspondence*, **426**, 383
Varney, M C M. *See under* Long, J C, **421**, 922
Varshney, G K. *See under* Englund, C, **425**, 512
Vasilieva, N. *See under* Li, W, **426**, 450
Vasisht, N. *See under* Xiao, B, **421**, 652
Vassalli, J-D. *See under* Nef, S, **426**, 291
Vassilopoulos, G. Transplanted bone marrow regenerates liver by cell fusion (*with* Wang, P-R, Russell, D W), *Letter to Nature*, **422**, 901
Vaterlaus, A. *See under* Portmann, O, **422**, 701
Vavilov, N. *See under* Casolino, M, **422**, 680
Vayonakis, A. *See under* Day, P K, **425**, 817
Veaute, X. The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments (*with* Jeusset, J, Soustelle, C, Kowalczykowski, S C, Le Cam, E, Fabre, F), *Letter to Nature*, **423**, 309
Veazey, P. *See under* Gaunt, M W, **421**, 936
Vedral, V. Quantum physics: Entanglement hits the big time, *News and views*, **425**, 28
Vega, F E. Global project needed to tackle coffee crisis (*with* Rosenquist, E, Collins, W), *Correspondence*, **425**, 343
Vega-Czarny, N. *See under* Heilig, R, **421**, 601
Veillet, C. *See under* Sicardy, B, **424**, 168
Veirs, S R. *See under* Thomson, R E, **424**, 545
Velamakanni, S. *See under* Venter, H, **426**, 866
Velazquez, J L P. Scientific research and the human condition, *Correspondence*, **421**, 13
Velev, O D. On-chip manipulation of free droplets (*with* Prevo, B G, Bhatt, K H), *Brief communication*, **426**, 515
Velicer, G J. Evolution of novel cooperative swarming in the bacterium *Myxococcus xanthus* (*with* Yu, Y-t N), *Letter to Nature*, **425**, 75
Vellai, T. Genetics: Influence of TOR kinase on lifespan in *C. elegans* (*with* Takacs-Vellai, K, Zhang, Y, Kovacs, A L, Orosz, L, Muller, F), *Brief communication*, **426**, 620
Venkataraman, N. *See under* Smith, C M, **424**, 657
Venter, H. An ABC transporter with a secondary-active multidrug translocator domain (*with* Shilling, R A, Velamakanni, S, Balakrishnan, L, van Veen, H W), *Letter to Nature*, **426**, 866
Verdier, J. *See under* Heilig, R, **421**, 601
Verdier-Discala, C. *See under* Heilig, R, **421**, 601
Verhagen, J V. QUAD system offers fair shares to all authors (*with* Wallace, K J, Collins, S C, Scott, T R), *Correspondence*, **426**, 602
Verhamme, I. *See under* Friedrich, R, **425**, 535
Verhoef, H A. *See under* De Deyn, G B, **422**, 711
Verhoeven, M A J. *See under* Bozovic, I, **422**, 873
Verma, U N. *See under* Yamamoto, Y, **423**, 655
Verma-Kuvari, S. *See under* Nef, S, **426**, 291
Verme, J L. *See under* Fu, J, **425**, 91
Vermeer, P D. Segregation of receptor and ligand regulates activation of epithelial growth factor receptor (*with* Einwalter, L A, Moninger, T O, Rokhlina, T, Kern, J A, Zabner, J, Welsh, M J), *Letter to Nature*, **422**, 322
Veron, G. *See under* Yoder, A D, **421**, 734
Verrocchio, P. *See under* Grigera, T S, **422**, 289
Verschure, P F M J. Environmentally mediated synergy between perception and behaviour in mobile robots (*with* Voegtlin, T, Douglas, R J), *Letter to Nature*, **425**, 620
Verschuren, D. Global change: The heat on Lake Tanganyika, *News and views*, **424**, 731
Vesala, T. *See under* Hari, P, **422**, 134
Vescovi, A L. *See under* Pluchino, S, **422**, 688
Vestergaard, B. *See under* Rawat, U B S, **421**, 87
  See under Klaholz, B P, **421**, 90
Vickery, P J. *See under* Powell, M D, **422**, 279
Vico, V. *See under* Heilig, R, **421**, 601
Vidal, M. *See under* Xu, L, **425**, 316
Vidal-Madjar, A. An extended upper atmosphere around the extrasolar planet HD209458b (*with* Lecavelier des Etangs, A, Desert, J-M, Ballester, G E, Ferlet, R, Hébrard, G, Mayor, M), *Letter to Nature*, **422**, 143
Vidale, J E. Damage to the shallow Landers fault from the nearby Hector Mine earthquake (*with* Li, Y-G), *Letter to Nature*, **421**, 524
Vierstra, R D. *See under* Newbigin, E, **423**, 229
Vieten, A. *See under* Friml, J, **426**, 147
Villemain, J. *See under* Krejci, L, **423**, 305
Villeneuve, D M. *See under* Niikura, H, **421**, 826
Villinger, H. *See under* Fisher, A T, **421**, 618
Vining, C B. Condensed matter physics: Thermopower to the people, *News and views*, **423**, 391
Vinkovic, D M. *See under* Williams, P A, **424**, 464
Vinnik, L. *See under* Saul, J, **422**, 136
Visscher, P K. Animal behaviour: How self-organization evolves, *News and views*, **421**, 799
Visser, G H. *See under* Wikelski, M, **423**, 704
Visser, K. Magnitude and timing of temperature change in the Indo-Pacific warm pool during deglaciation (*with* Thunell, R, Stott, L), *Letter to Nature*, **421**, 152
Viswanath, V. Ion channels: Opposite thermosensor in fruitfly and mouse (*with* Story, G M, Peier, A M, Petrus, M J, Lee, V M, Hwang, S W, Patapoutian, A, Jegla, T), *Brief communication*, **423**, 822
Vitos, L. *See under* Dubrovinsky, L, **422**, 58
Vocadlo, L. Possible thermal and chemical stabilization of body-centred-cubic iron in the Earth's core (*with* Alfè, D, Gillan, M J, Wood, I G, Brodholt, J P, Price, G D), *Letter to Nature*, **424**, 536
Vodo, P. *See under* Parimi, P V, **426**, 404
Voegtlin, T. *See under* Verschure, P F M J, **425**, 620
Voelker, R. *See under* Galagan, J E, **422**, 859
Voets, T. *See under* Watanabe, H, **424**, 434
Vogel, S S. *See under* Bansal, D, **423**, 168
Vogt, G. *See under* Scholtz, G, **421**, 806
Vogt, J L. *See under* Thomas, J W, **424**, 788
Vokrouhlicky, D. The vector alignments of asteroid spins by thermal torques (*with* Nesvorny, D, Bottke, W F), *Article*, **425**, 147
Volckaert, G. *See under* Wood, V, **421**, 94
Volkov, I. Neutral theory and relative species abundance in ecology (*with* Banavar, J R, Hubbell, S P, Martian, A), *Letter to Nature*, **424**, 1035

Vollrath, F. Spider Webs and Silks: tracing Evolution from Molecules to Genes to Phenotypes (*by* Craig, C L), *Book review*, **426**, 121
Volovik, G E. *See under* Finne, A P, **424**, 1022
von Andrian, U H. *See under* Mora, J R, **424**, 88
von der Linde, D. *See under* Sokolowski-Tinten, K, **422**, 287
von Helversen, O. *See under* Winter, Y, **425**, 612
von Herrath, M G. *See under* Janssen, E M, **421**, 852
von Zglinicki, T. *See under* d'Adda di Fagagna, F, **426**, 194
Vorderwisch, P. *See under* Rüegg, Ch, **423**, 62
Vranes, K. *See under* Gordon, A L, **425**, 824
Vreeswijk, P M. *See under* Hjorth, J, **423**, 847
Vriens, J. *See under* Watanabe, H, **424**, 434
Vukusic, P. Photonics structures in biology (*with* Sambles, J R), *Insight review article*, **424**, 852

Wada, M. *See under* Kikuchi, K, **421**, 167
  See under Kawai, H, **421**, 287
Wada, S. A newly discovered species of living baleen whale (*with* Oishi, M, Yamada, T K), *Letter to Nature*, **426**, 278
Wade, N. *See under* Calder, N, **425**, 241
Wade, P A. *See under* Etchegaray, J-P, **421**, 177
Wagner, R M. *See under* Bond, H E, **422**, 405
Wagner, U. *See under* Mojon-Azzi, S M, **421**, 209
Wagner-McPherson, C. *See under* Hillier, L W, **424**, 157
Wagoner, R V. Astronomy: Heartbeats of a neutron star, *News and views*, **424**, 27
Waheed, A A. Citation rate unrelated to journals' impact factor, *Correspondence*, **426**, 495
Waizenegger, T. *See under* Paschen, S A, **426**, 862
Waki, H. *See under* Yamauchi, T, **423**, 762
Walden, H. Insights into the ubiquitin transfer cascade from the structure of the activating enzyme for NEDD8 (*with* Podgorski, M S, Schulman, B A), *Letter to Nature*, **422**, 330
Waldenstrom, A. *See under* Petersson, P, **424**, 72
Walderich, B. *See under* Knaut, H, **421**, 279
Walker, A. *See under* Knaut, H, **421**, 279
Walker, B D. *See under* Altfeld, M, **423**, 461
Walker, G. Snowball Earth (*by* Nisbet, E), *Book review*, **422**, 812
Walker, G C. *See under* Mah, T-F, **426**, 306
Walker, I R. *See under* Doiron-Leyraud, N, **425**, 595
Walker, J E. *See under* Martinez, L O, **421**, 75
Walker, M A. *See under* Thomas, J W, **424**, 788
Walker, M L. *See under* Burgess, S A, **421**, 715
Walker, M P. Dissociable stages of human memory consolidation and reconsolidation (*with* Brakefield, T, Hobson, J A, Stickgold, R), *Letter to Nature*, **425**, 616
Walker, N M. *See under* Ueda, H, **423**, 506
Walker, N P C. *See under* Wang, Z, **423**, 555
Walker, P A. *See under* Xiao, B, **421**, 652
Walker, P R. Sexual transmission of HIV in Africa (*with* Worobey, M, Rambaut, A, Holmes, E C, Pybus, O G), *Brief communication*, **422**, 679
Walker, R. *See under* Hillier, L W, **424**, 157
Walker, R A. *See under* Steel, W H, **424**, 296
Walker, R J. *See under* Becker, H, **425**, 152
Walkey, C J. *See under* Puigserver, P, **423**, 550
Wall, M. *See under* Mungall, A J, **425**, 805
Wallace, K J. *See under* Verhagen, J V, **426**, 602
Wallach, D. *See under* Kovalenko, A, **424**, 801
Wallander, J. *See under* Blomqvist, D, **422**, 833
Waller, J. Fabulous Science: Fact and Fiction in the History of Scientific Discovery, *Book review by* Galloway, J, **422**, 19
Wallis, J M. *See under* Mungall, A J, **425**, 805
Wallis, J W. *See under* Hillier, L W, **424**, 157
Wallner, A. *See under* Straume, T, **424**, 539
Wallner, C. *See under* Straume, T, **424**, 539
Wallraff, A. Quantum dynamics of a single vortex (*with* Lukashenko, A, Lisenfeld, J, Kemp, A, Fistul, V, Koval, Y, Ustinov, A V), *Letter to Nature*, **425**, 155
Walpole, M J. *See under* Smith, R J, **426**, 67
Walsh, C. Antibiotics: Actions, Origins, Resistance, *Book review by* Cole, S T, **424**, 491
Walsh, J P. Secrecy is increasing in step with competition (*with* Hong, W), *Correspondence*, **422**, 801
Walsh, P D. Catastrophic ape decline in western equatorial Africa (*with* Abernethy, K A, Bermejo, M, Beyers, R, De Wachter, P, Ella Akou, M, Huijbregts, B, Idiata Mambounga, D, Kamdem Toham, A, Kilbourn, A M, Lahm, S A, Latour, S, Maisels, F, Mbina, C, Mihindou, Y, Ndong Obiang, S, Ntsame Effa, E, Starkey, M P, Telfer, P, Thibault, M, Tutin, C E G, White, L J T, Wilkie, D S), *Letter to Nature*, **422**, 611
Walsh, S. *See under* Wood, V, **421**, 94
Walter, F. Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$ (*with* Bertoldl, F, Carilli, C, Cox, P, Lo, K Y, Neri, R, Fan, X, Omont, A, Strauss, M A, Menten, K M), *Letter to Nature*, **424**, 406
Walter, M J. *See under* Yoshino, T, **422**, 154
Walter, M R. *See under* Shen, Y, **423**, 632
Walther, T C. RanGTP mediates nuclear pore complex assembly (*with* Askjaer, P, Gentzel, M, Habermann, A, Griffiths, G, Wilm, M, Mattaj, I W, Hetzer, M), *Letter to Nature*, **424**, 689
Walunas, T. *See under* Ivanova, N, **423**, 87
Wambsganss, J. Astronomy: Wide-angle lens, *News and views*, **426**, 781
Wambutt, R. *See under* Wood, V, **421**, 94
Wan, M. *See under* Ren, S-X, **422**, 888
Wang, B. *See under* Stewart, G S, **421**, 961
  See under Watkins, D N, **422**, 313
Wang, C-T. Different domains of synaptotagmin control the choice between kiss-and-run and full fusion (*with* Lu, J-C, Bai, J, Chang, P Y, Martin, T F J, Chapman, E R, Jackson, M B), *Letter to Nature*, **424**, 943
Wang, H. Nicotinic acetylcholine receptor α7 subunit is an essential regulator of inflammation (*with* Yu, M, Ochani, M, Amella, C A, Tanovic, M, Susarla, S, Li, J H, Wang, H, Yang, H, Ulloa, L, Al-Abed, Y, Czura, C J, Tracey, K J), *Letter to Nature*, **421**, 384
  See under Wang, H, **421**, 384
  See under Wolfe, J T, **424**, 209
Wang, J. *See under* Juo, Z S, **422**, 534
Wang, J-H. *See under* Takagi, J, **424**, 969
Wang, P-R. *See under* Vassilopoulos, G, **422**, 901
Wang, Q. *See under* Javey, A, **424**, 654
Wang, S. *See under* Wei, X, **422**, 307
  See under Galagan, J E, **422**, 859, **423**, 197
Wang, S C. *See under* Souma, S, **423**, 65
Wang, S-Y. *See under* Ren, S-X, **422**, 888
Wang, X. *See under* Xu, X, **421**, 335
  See under Li, X, **422**, 618
  Cell fusion is the principal source of bone-marrow-derived hepatocytes (*with* Willenbring, H, Akkari, Y, Torimaru, Y, Foster, M, Al-Dhalimy, M, Lagasse, E, Finegold, M, Olson, S, Grompe, M), *Letter to Nature*, **422**, 897
  Epidermal growth factor receptor is a cellular receptor for human cytomegalovirus (*with* Huong, S-M, Chiu, M L, Raab-Traub, N, Huang, E-S), *Letter to Nature*, **424**, 456
Wang, Y. *See under* Xiao, Y, **421**, 535
  See under Bates, S H, **421**, 856
  See under Morris, D G, **422**, 169
  See under Li, X, **422**, 618
  Spin entropy as the likely source of enhanced thermopower in Na$_x$Co$_2$O$_4$ (*with* Rogado, N S, Cava, R J, Ong, N P), *Letter to Nature*, **423**, 425
  Achromatic Fresnel optics for wideband extreme-ultraviolet and X-ray imaging (*with* Yun, W, Jacobsen, C), *Letter to Nature*, **424**, 50
  See under Davidson, A J, **425**, 300
  See under Fischle, W, **425**, 475
Wang, Y C. *See under* Su, H T, **423**, 974
Wang, Y T. *See under* Nong, Y, **422**, 302
Wang, Z. Structure and function of Nurr1 identifies a class of ligand-independent nuclear receptors (*with* Benoit, G, Liu, J, Prasad S, Aarnisalo, P, Liu, X, Walker, N P C, Perlmann, T, Xu, H), *Letter to Nature*, **423**, 555
Wanner, V. *See under* Treiner, E, **422**, 164, 423, 1018
Ward, A. *See under* Williams, P A, **424**, 464
Ward, M D. Chirality: Organic films with a twist, *News and views*, **426**, 615
Ward, P D. The Life and Death of Planet Earth: How the New Science of Astrobiology Charts the Ultimate Fate of our World (*with* Brownlee, D), *Book review by* Sleep, N H, **422**, 663
Ward, S A. *See under* Eckstein-Ludwig, U, **424**, 957
Wark, D. Now you see them, now you don't, *News and views*, **421**, 485
Wark, R M. *See under* Berger, E, **426**, 154
Warner, D. Nuclear physics: It's a knockout, *News and views*, **425**, 570
Warrant, E J. *See under* Dacke, M, **424**, 33
Warren, P. *See under* Lubchenco, J, **421**, 785
Warren, S M. The BMP antagonist noggin regulates cranial suture fusion (*with* Brunet, L J, Harland, R M, Economides, A N, Longaker, M T), *Letter to Nature*, **422**, 625
Warren, T. *See under* Wood, V, **421**, 94
Warshaw, A L. *See under* Thayer, S P, **425**, 851
Wartho, J-A. *See under* Brooker, R A, **423**, 738
Wasan, D T. Spreading of nanofluids on solids (*with* Nikolov, A D), *Letter to Nature*, **423**, 156
Washburn, D A. *See under* Rumbaugh, D M, **425**, 454
Washburn, S. *See under* Buttiker, M, **422**, 271, **424**, 638
Wasserburg, G J. Max Planck: closures will damage German science (*with* McKenzie, D P), *Correspondence*, **422**, 469
Wasserman, L H. *See under* Elliot, J L, **424**, 165
Wastl, J. *See under* Molina-Heredia, F P, **424**, 33
Watanabe, H. *See under* Ose, T, **422**, 185
  Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels (*with* Vriens, J, Prenen, J, Droogmans, G, Voets, T, Nilius, B), *Letter to Nature*, **424**, 434
Watanabe, K. *See under* Ose, T, **422**, 185
Watanabe, K N. Concern about Japan's unclear biotech regulations, *Correspondence*, **421**, 689
Watanabe, M. *See under* Yoshimura, T, **426**, 178
Watanabe, O. Homogeneous climate variability across East Antarctica over the past three glacial cycles (*with* Jouzel, J, Johnsen, S, Parrenin, F, Shoji, H, Yoshida, N), *Letter to Nature*, **422**, 509
Watanabe, T. *See under* Seitz, A R, **422**, 36
Watanabe-Fukunaga, R. *See under* Nishimoto, S, **424**, 1071
Waterbury, J. *See under* Palenik, B, **424**, 1037
Waterbury, J B. *See under* Sullivan, M B, **424**, 1047, **426**, 584
Waterston, R. *See under* Heilig, R, **421**, 601
Waterston, R H. *See under* Skaletsky, H, **423**, 825
  See under Rozen, S, **423**, 873
  See under Hillier, L W, **424**, 157
Watford, W T. Autoimmunity: A case of mistaken identity (*with* O'Shea, J J), *News and views*, **421**, 706
Watkins, D N. Hedgehog signalling within airway epithelial progenitors and in small-cell lung cancer (*with* Berman, D M, Burkholder, S G, Wang, B, Beachy, P A, Baylin, S B), *Letter to Nature*, **422**, 313
  See under Berman, D M, **425**, 846
Watkins, K L. *See under* Read, T D, **423**, 81
Watmough, S A. Ecology: Mycorrhizal weathering in base-poor forests (*with* Dillon, P J), *Brief communication*, **423**, 823
Watson, D. *See under* Hjorth, J, **423**, 847
Watson, J C. *See under* Wilson, A M, **421**, 35
Watson, J D. DNA: The secret of life (*with* Berry, A, Knopf, A A), *Book review by* Singer, M, **422**, 809
Watson, M H. *See under* Morris, M C, **423**, 1009
Watts, D J. Six Degrees: The Science of a Connected Age, *Book review by* Adamic, L, **422**, 265
Watts, J L. *See under* Ashrafi, K, **421**, 268
Watzman, H. German researchers set to receive Israeli stem-cell shipment, *News*, **421**, 199
  Oxford professor accused of discrimination over e-mail, *News*, **424**, 7
Waxman, E. Astronomy: New direction for γ-rays, *News and views*, **423**, 388
Waysand, G. *See under* Matricon, J, **426**, 17
Weatherall, J C. *See under* Hankins, T H, **422**, 141
Weaver, A J. *See under* Gillett, N P, **422**, 292
Webb, E A. *See under* Palenik, B, **424**, 1037
  See under Rocap, G, **424**, 1042
Webb, R J. *See under* Eckstein-Ludwig, U, **424**, 957
Webb, W W. *See under* Baumgart, T, **425**, 821
Webber, W R. *See under* McDonald, F B, **426**, 48
Webbon, C C. *See under* Baker, P J, **423**, 400
Weber, B. *See under* Prebble, J, **422**, 816
Weber, B H. Evolution and Learning: The Baldwin Effect Reconsidered (*with* Depew, D J), *Book review by* Laland, K N, **425**, 345
Weber, H-P. *See under* Dubrovinsky, L, **422**, 58
Weber, J M. *See under* Calvi, L M, **425**, 841
Weber, R J. *See under* Thomas, J W, **424**, 788
Weber, T. *See under* Stellman, J M, **422**, 681
Webster, Z. *See under* Saveliev, A, **422**, 909
Weckström, M. *See under* Niven, J E, **421**, 630
Wedler, H. *See under* Wood, V, **421**, 94
Weeks, J R. *See under* Luminet, J-P, **425**, 593
Wehner, A. *See under* Knaut, H, **421**, 279
Wehr, M. Balanced inhibition underlies tuning and sharpens spike timing in auditory cortex (*with* Zador, A M), *Letter to Nature*, **426**, 442
Wei, B. *See under* Modi, A, **424**, 171
Wei, X. Antibody neutralization and escape by HIV-1 (*with* Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M), *Letter to Nature*, **422**, 307
  Erratum: Antibody neutralization and escape by HIV-1 (*with* Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M), *Letter to Nature*, **423**, 197
Wei, Y. *See under* Xu, L, **425**, 316
Weibrecht, K W. *See under* Calvi, L M, **425**, 841
Weidon, S M. *See under* Lamarre, D, **426**, 314
Weigel, D. *See under* Palatnik, J F, **425**, 257
Weihs, G. *See under* Pan, J-W, **423**, 417
Weijers, D. *See under* Friml, J, **426**, 147
Weil, A. Evolutionary biology: Teeth as tools, *News and views*, **422**, 128
Weiler, C. *See under* Knaut, H, **421**, 279, **421**, 279
Weill, M. Comparative genomics: Insecticide resistance in mosquito vectors (*with* Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M), *Brief communication*, **423**, 136
  Corrigendum: Insecticide resistance in mosquito vectors (*with* Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M), *Brief communication*, **425**, 366
Weimerskirch, H. Frigatebirds ride high on thermals (*with* Chastel, O, Barbraud, C, Tostain, O), *Brief communication*, **421**, 333
Weinberg, S. Four golden lessons, *Concepts*, **426**, 389
Weinstein, M. *See under* Wu, L, **421**, 942
Weisman, L S. *See under* Tang, F, **422**, 87
Weiss, G. *See under* Sossinsky, A, **421**, 479
Weiss, J B. *See under* Lee, H-H, **425**, 507
Weissenbach, J. *See under* Heilig, R, **421**, 601
Weissman, I L. *See under* Park, I-K, **423**, 302
  See under Reya, T, **423**, 409
  See under Willert, K, **423**, 448
Weissman, J S. *See under* Chien, P, **424**, 948
  See under Huh, W-K, **425**, 686
  See under Ghaemmaghami, S, **425**, 737
Weitz, D A. *See under* Nikolaides, M G, **424**, 1014
Welch, V L. *See under* Parker, A R, **426**, 786
Welchman, D P. *See under* Kamath, R S, **421**, 231
Weldman, J F. *See under* Read, T D, **423**, 81
Weldon, S M. *See under* Lamarre, D, **426**, 186
Wellman, C H. Fragments of the earliest land plants (*with* Osteloff, P L, Mohiuddin, U), *Letter to Nature*, **425**, 282
Wells, A L. *See under* Coureux, P-D, **425**, 419
Wells, S. The Journey of Man: A Genetic Odyssey, *Book review by* Cann, R, **423**, 117
Welman, S. *See under* Paul, A, **421**, 51
Welsh, K. *See under* Guo, B, **423**, 456
Welsh, M J. *See under* Vermeer, P D, **422**, 322
Welter, B. *See under* Alff, L, **422**, 698
Welter, S. Electroluminescent device with reversible switching between red and green emission (*with* Brunner, K, Hofstraat, J W, De Cola, L), *Letter to Nature*, **421**, 54
Weltlens, I. *See under* Wood, V, **421**, 94
Wen, Y-M. *See under* Ren, S-X, **422**, 888

Wendl, M C. *See under* Hillier, L W, **424**, 157
  Open-source answer to bibliography problem (*with* Dooling, D J), *Correspondence*, **424**, 995
Wenger, J. *See under* Grosshans, F, **421**, 238
Weninger, W. *See under* Mora, J R, **424**, 88
Wennberg, P O. *See under* Rahn, T, **424**, 918
Wentworth, M. *See under* Ruban, A V, **421**, 648
Wenzhöfer, F. *See under* Witte, U, **424**, 763
Werner, J M. *See under* Schwarz-Linek, U, **423**, 177
Werner-Washburne, M. *See under* Galagan, J E, **422**, 859
Werz, C. *See under* Knaut, H, **421**, 279
Weser, U. *See under* Koller, J, **425**, 784
Wessler, S R. *See under* Jiang, N, **421**, 163
West, A P. *See under* Mungall, A J, **425**, 805
West, G B. Physiology: Why does metabolic rate scale with body size (*with* Savage, V M, Gillooly, J, Enquist, B J, Woodruff, W H, Brown, J H), *Brief communication*, **421**, 713
  See under Gillooly, J F, **424**, 270
West, J A. *See under* Smith, C M, **424**, 657
West, K W. *See under* Lu, W, **423**, 422
West, S A. *See under* Kiers, E T, **425**, 78
  See under Allsop, D J, **425**, 783
West-Eberhard, M J. Developmental Plasticity and Evolution, *Book review by* de Jong, G, Crozier, R H, **424**, 16
Westgate, J A. *See under* Zazula, G D, **423**, 603
Westney, C. Whaling group backs conservation, *News*, **423**, 789
Westwick, P J. The National Labs: Science in an American System 1947–1974, *Book review by* York, H, **425**, 240
Westwood, D A. *See under* Whitney, D, **423**, 869
Wetherby, K D. *See under* Thomas, J W, **424**, 788
Wheat, C G. *See under* Fisher, A T, **421**, 618
Whetstline, J R. *See under* Shi, Y, **422**, 735
Whisler, K. *See under* Sutton, M A, **421**, 70
White, A G. *See under* O'Brien, J L, **426**, 264
White, A R. Monoclonal antibodies inhibit prion replication and delay the development of prion disease (*with* Enever, P, Tayebi, M, Mushens, R, Linehan, J, Brandner, S, Anstee, D, Collinge, J, Hawke, S), *Letter to Nature*, **422**, 80
White, C R. *See under* Seymour, R S, **426**, 243
White, L E. *See under* Basole, A, **423**, 986
White, L J T. *See under* Walsh, P D, **422**, 611
White, N. Understanding the thermal evolution of deep-water continental margins (*with* Thompson, M, Barwise, T), *Insight review article*, **426**, 334
White, O. *See under* Salzberg, S, **422**, 801
  See under Read, T D, **423**, 81
White, R J. *See under* Gomez-Roman, N, **421**, 290
White, S S. *See under* Mungall, A J, **425**, 805
White, T D. Pleistocene *Homo sapiens* from Middle Awash, Ethiopia (*with* Asfaw, B, DeGusta, D, Gilbert, H, Richards, G D, Suwa, G, Howell, F C), *Letter to Nature*, **423**, 742
  See under Clark, J D, **423**, 747
  See under Hart, W K, **426**, 622
Whitehead, S. *See under* Wood, V, **421**, 94
Whitehead, S L. *See under* Mungall, A J, **425**, 805
Whitelam, G C. *See under* Salter, M G, **426**, 680
Whiten, A. Intelligence of Apes and Other Rational Beings (*by* Rumbaugh, D M, Washburn, D A), *Book review*, **425**, 454
Whitfield, J. The law of the jungle, *News feature*, **421**, 8
  Marine ecology: Fish that go to the cleaners, *News and views*, **421**, 493
  Evolution: Aquatic life and the larger male, *News and views*, **421**, 597
  Plant science: Self-help for the interactive root, *News and views*, **421**, 709
  Animal behaviour: Heredity and the bolder bird, *News and views*, **421**, 804
  Evolutionary biology: Species, more or less, *News and views*, **422**, 33
  Alien-hunters get scope to search, *News*, **422**, 249
  Ecology: Nuclear reptiles, *News and views*, **422**, 275
  Evolutionary biology: Asexual means of mutation control, *News and views*, **422**, 393
  How to clean a beach, *News feature*, **422**, 464
  Ecology: Ecosystem engineering, *News and views*, **422**, 487
  Ape populations decimated by hunting and Ebola virus, *News*, **422**, 551
  Human evolution: Being manipulative, *News and views*, **422**, 577
  Biomechanics: With a swing, *News and views*, **422**, 829
  Evolution: Flowers to fit the bill, *News and views*, **423**, 30
  Ecology: News of Chews, *News and views*, **423**, 134
  Behavioural ecology: Fresh on the tang of citrus, *News and views*, **423**, 395
  Gut reaction, *News feature*, **423**, 583
  Parasitology: In the bag, *News and views*, **423**, 702
  DNA-chip firm backs down over upgrade, *News*, **424**, 119
  Flowers' sick trick give botanists double trouble, *News*, **424**, 712
  Environmental biology: Metallic worms turn, *News and views*, **424**, 740
  Ecology: Under attack, *News and views*, **424**, 1011
  Evolutionary biology: Loss for profit, *News and views*, **425**, 34
  Ecology: Human past and forest present, *News and views*, **425**, 143
  Behavioural ecology: Horns and lifestyle, *News and views*, **425**, 253
  Too hot to handle, *News feature*, **425**, 338
  Ecology: Oxygen needs in the corals, *News and views*, **425**, 364
  Vision: In the eye of the beholder, *News and views*, **425**, 678
  Physiology: Fast food, *News and views*, **426**, 136
  Evolutionary biology: Spot the difference, *News and views*, **426**, 242
  Ecology: Eaten history, *News and views*, **426**, 514
  Mystery remains as journal withdraws paper, *News*, **426**, 594
  Sheep horns downsized by hunters' taste for trophies, *News*, **426**, 595
Whiting, M F. Loss and recovery of wings in stick insects (*with* Bradler, S, Maxwell, T), *Letter to Nature*, **421**, 264
Whitmore, T C. *See under* Chazdon, R L, **421**, 20
Whitney, D. The influence of visual motion on fast reaching movements to a stationary object (*with* Westwood, D A, Goodale, M A), *Letter to Nature*, **423**, 869
Whittaker, H. *See under* Mungall, A J, **425**, 805
Wicker, L S. *See under* Ueda, H, **423**, 506
Wickett, M E. *See under* Caldeira, K, **425**, 365
Widdel, F. *See under* Kruger, M, **426**, 878
Widdowson, M. *See under* Spicer, R A, **421**, 622
Widemann, T. *See under* Sicardy, B, **424**, 168
Wiedemann, L M. *See under* Zhang, J, **425**, 836
Wiedemann, N. Machinery for protein sorting and assembly in the mitochondrial outer membrane (*with* Kozjak, V, Chacinska, A, Schönfisch, B, Rospert, S, Ryan, M T, Pfanner, N, Meisinger, C), *Letter to Nature*, **424**, 565
Wiedenbeck, M. *See under* Keppler, H, **424**, 414
Wiederhirn, V. *See under* Müller, D C, **421**, 829
Wiegand, U K. *See under* Duncan, R R, **422**, 176
Wiekowski, M. *See under* Cua, D J, **421**, 744
Wiemann, M C. *See under* Kappelman, J, **426**, 549
Wienholds, E. *See under* Hurlstone, A F L, **425**, 633
Wiens, D A. *See under* Tibi, R, **424**, 921
Wiggins, L S. *See under* Thomas, J W, **424**, 788
Wiggins, S. *See under* Astakhov, S A, **423**, 264
Wightman, R M. *See under* Phillips, P E M, **422**, 614, **423**, 461
Wijers, R A M J. *See under* Hjorth, J, **423**, 847
  See under Greiner, J, **426**, 157
Wijmenga, C. *See under* Ganesh, L, **426**, 853
Wijnands, R. *See under* Chakrabarty, D, **424**, 42
  Quasi-periodic X-ray brightness fluctuations in an accreting millisecond pulsar (*with* van der Klis, M, Homan, J, Chakrabarty, D, Markwardt, C B, Morgan, E H), *Letter to Nature*, **424**, 44
Wikelski, M. Avian metabolism: Costs of migration in free-flying songbirds (*with* Tarlow, E M, Raim, A, Diehl, R H, Larkin, R P, Visser, G H), *Brief communication*, **423**, 704
Wikramanayake, A H. An ancient role for nuclear β-catenin in the evolution of axial polarity and germ layer segregation (*with* Hong, M, Lee, P N, Pang, K, Byrum, C A, Bince, J M, Xu, R, Martindale, M Q), *Letter to Nature*, **426**, 446
Wilczek, F. Galileo's Finger (*by* Atkins, P), *Book review*, **422**, 377
  Quantum: A Guide for the Perplexed (*by* Al-Khalili, J), *Book review*, **424**, 997
Wild, A. *See under* Mungall, A J, **425**, 805
Wildes, A. *See under* Rüegg, Ch, **423**, 62
Wiley/Organic Syntheses Inc. Organic Syntheses Database 2003, *Book review by* Mann, J, **426**, 122
Wilhelm, H. *See under* Custers, J, **424**, 524
Wilkie, D S. *See under* Walsh, P D, **422**, 611
Wilkinson, C J. *See under* Andersen, J S, **426**, 570
Wilkinson, K D. Signal transduction: Aspirin, ubiquitin and cancer, *News and views*, **424**, 738
Willard, H F. Genome biology: Tales of the Y chromosome, *News and views*, **423**, 810
Willems, A. *See under* Pintard, L, **425**, 311
Willems, J. Bringing down the barriers, *Commentary*, **422**, 470
Willenbring, H. *See under* Wang, X, **422**, 897
Willerroider, M. European Commission dips toe into military research, *News*, **425**, 549
  Routine tests reveal unknown strains of BSE prions, *News*, **425**, 648
  Roaming polar bears reveal Arctic role of pollutants, *News*, **426**, 5
Willerslev, E. *See under* Bunce, M, **425**, 172
Willert, K. *See under* Reya, T, **423**, 409
  Wnt proteins are lipid-modified and can act as stem cell growth factors (*with* Brown, J D, Danenberg, E, Duncan, A W, Weissman, I L, Reya, T, Yates III, J R, Nusse, R), *Letter to Nature*, **423**, 448
Willett, S D. *See under* Dadson, S J, **426**, 648
Willey, D J. *See under* Mungall, A J, **425**, 805
Williams, B L. *See under* Rokas, A, **425**, 798
Williams, D. *See under* Hillier, L W, **424**, 157
Williams, D E. *See under* Ryan, M P, **424**, 390
Williams, E S. *See under* Miller, M W, **425**, 35
Williams, G. *See under* Greiner, J, **426**, 157
Williams, J. *See under* Krol, M C, **421**, 131
Williams, P A. Crystal structure of human cytochrome P450 2C9 with bound warfarin (*with* Cosme, J, Ward, A, Angove, H C, Vinkovic, D M, Jhoti, H), *Letter to Nature*, **424**, 464
Williams, P J L. *See under* Karl, D M, **426**, 32
Williams, P M. Hidden complexity in the mechanical properties of titin (*with* Fowler, S B, Best, R B, Toca-Herrera, J L, Scott, K A, Steward, A, Clarke, J), *Letter to Nature*, **422**, 446
Williams, Q. The Dynamic Structure of the Deep Earth: An Interdisciplinary Approach (*by* Karato, S-I), *Book review*, **426**, 231
Williamson, R. *See under* Bansal, D, 423, 168
Willis, J H. *See under* Pintard, L, **425**, 311
Wilm, M. *See under* Walther, T C, **424**, 689
Wilmer, T E. *See under* Mungall, A J, **425**, 805
Wilming, L. *See under* Mungall, A J, **425**, 805
Wilmut, I. *See under* Theise, N D, **425**, 21
Wilson, A H. Archaean ultra-depleted komatiites formed by hydrous melting of cratonic mantle (*with* Shirey, S B, Carlson, R W), *Letter to Nature*, **423**, 858
Wilson, A M. A catapult action for rapid limb protraction (*with* Watson, J C, Lichtwark, G A), *Brief communication*, **421**, 35
Wilson, C A. *See under* Phiel, C J, **423**, 435
Wilson, E O. *Pheidole* in the New World: A Dominant, Hyperdiverse Ant Genus, *Book review by* Agosti, D, **424**, 727
Wilson, J R. *See under* Xiao, B, **421**, 652
Wilson, J S. *See under* Baker, P J, **422**, 581
Wilson, P. *See under* Wu, L, **421**, 942
Wilson, R. *See under* Heilig, R, **421**, 601
Wilson, R K. *See under* Skaletsky, H, **423**, 825
  See under Rozen, S, **423**, 873
  See under Hillier, L W, **424**, 157
Wincker, P. *See under* Heilig, R, **421**, 601
Wineland, D J. *See under* Leibfried, D, **422**, 412
Winful, H G. Optics: Mechanism for 'superluminal' tunnelling, *Brief communication*, **424**, 638
Winkel, D P. *See under* Gregg, M C, **422**, 513
Winkler, A. *See under* Kappelman, J, **426**, 549
Winston, R. Whose View of Life? Embryos, Cloning and Stem Cells (*by* Maienschein, J), *Book review*, **426**, 603
Winter, Y. Ultraviolet vision in a bat (*with* Lopez, J, von Helversen, O), *Letter to Nature*, **425**, 612
Wirsing, B. Max Planck: cuts were decided years ago, *Correspondence*, **422**, 469
Wisman, E. *See under* Pinyopich, A, **424**, 85
Wisseman, S U. The Scientific Study of Mummies (*by* Aufderheide, A C), *Book review*, **423**, 18
Witkowski, J. *See under* Inglis, J, **426**, 229
Witte, K. *See under* Tzallas, P, **426**, 267
Witte, U. *In situ* experimental evidence of the fate of a phytodetritus pulse at the abyssal sea floor (*with* Wenzhöfer, F, Sommer, S, Boetius, A, Heinz, P, Aberle, N, Sand, M, Cremer, A, Abraham, W-R, Jorgensen, B B, Pfannkuche, O), *Letter to Nature*, **424**, 763
Witze, E S. *See under* Bloss, T A, **424**, 1066
Woch, J. *See under* Solanki, S K, **425**, 692
Woehlke, G. *See under* Schliwa, M, **422**, 759
Woerner, T E. *See under* Han, S, **425**, 196
Woessner, J P. *See under* Hillier, L W, **424**, 157
Wohldmann, P E. *See under* Hillier, L W, **424**, 157
Wohlschlegel, J A. Proteomics: Where's Waldo in yeast? (*with* Yates, J R), *News and views*, **425**, 671
WoldeGabriel, G. *See under* Clark, J D, **423**, 747
  See under Hart, W K, **426**, 622
Wolf, A M. *See under* Read, T D, **423**, 81
Wolf, D M. *See under* Rao, C V, **421**, 190
Wolf, R M. *See under* Ludwig, M-G, **425**, 93
Wolfe, A M. *See under* Prochaska, J X, **423**, 57
Wolfe, J A. *See under* Spicer, R A, **421**, 622
Wolfe, J T. T-type calcium channel regulation by specific G-protein βγ subunits (*with* Wang, H, Howard, J, Garrison, J C, Barrett, P Q), *Letter to Nature*, **424**, 209
Wolfe, K. Speciation reversal, *News and views*, **422**, 25
Wolfe, T. *See under* Janssen, E M, **421**, 852
Wolff, A. Britannica: which edition inspired Schwinger?, *Correspondence*, **423**, 801
Wong, J K Y. *See under* Leigh, D A, **424**, 174
Wong, K-K. Telomere dysfunction and Atm deficiency compromises organ homeostasis and accelerates ageing (*with* Maser, R S, Bachoo, R M, Menon, J, Carrasco, D R, Gu, Y, Alt, F W, DePinho, R A), *Letter to Nature*, **421**, 643
Wong, M-L. Poetic pride in stpes towards knowledge, *Correspondence*, **422**, 559
  Britannica: source of a passion for physics, *Correspondence*, **423**, 801
Wong, S K. *See under* Li, W, **426**, 450
Wood, B J. *See under* Brooker, R A, **423**, 738
Wood, H. Sensory transduction: Not to be sneezed at, *News and views*, **424**, 740
Wood, I G. *See under* Vocadlo, L, **424**, 536
Wood, J A. Planetary science: Of asteroids and onions, *News and views*, **422**, 479
Wood, J G. *See under* Andersen, R M, **423**, 181
  See under Howitz, K T, **425**, 191
Wood, J M. *See under* Mungall, A J, **425**, 805
Wood, V. Corrigendum: The genome sequence of *Schizosaccharomyces pombe* (*with* Gwilliam, R, Rajandream, M-A, Lyne, M *et al.*[4]), *Letter to Nature*, **421**, 94

---

[4] **Full author list:** Wood, V, Gwilliam, R, Rajandream, M-A, Lyne, M, Lyne, R, Stewart, A, Sgouros, J, Peat, N, Hayles, J, Baker, S, Basham, D, Bowman, S, Brooks, K, Brown, D, Brown, S, Chillingworth, T, Churcher, C, Collins, M, Connor, R, Cronin, A, Davis, P, Feltwell, T, Fraser, A, Gentles, S, Goble, A, Hamlin, N, Harris, D, Hidalgo, J, Hodgson, G, Holroyd, S, Hornsby, T, Howarth, S, Huckle, E J, Hunt, S, Jagels, K, James, K, Jones, L, Jones, M, Leather, S, McDonald, S, McLean, J, Mooney, P, Moule, S, Mungall, K, Murphy, L, Niblett, D, Odell, C, Oliver, K, O'Neil, S, Pearson, D, Quall, M A, Rabbinowitsch, E, Rutherford, K, Rutter, S, Saunders, D, Seeger, K, Sharp, S, Skelton, J, Simmonds, M, Squares, R, Squares, S, Stevens, K, Taylor, K, Taylor, R G, Tivey, A, Walsh, S, Warren, T, Whitehead, S, Woodward, J, Volckaert, G, Aert, R, Robben, J, Grymonprez, B, Weltlens, I, Vanstreels, E, Rieger, M, Schafer, M, Muller-Auer, S, Gabel, C, Fuchs, M, Dusterhoft, A, Fritzc, C, Holzer, E, Moestl, D, Hilbert, H, Borzym, K, Langer, I, Beck, A, Lehrach, H, Reinhardt, R, Pohl, T M, Eger, P, Zimmermann, W, Wedler, H, Wambutt, R, Purnelle, B, Goffeau, A, Cadieu, E, Dreano, S, Gloux, S, Lelaure, V, Mottler, S, Galibert, F, Aves, S J, Xiang, Z, Hunt, C, Moore, K, Hurst, S M, Lucas, M, Rochet, M, Gaillardin, C, Tallada, V A, Garzon, A, Thode, G, Daga, R R, Cruzado, L, Jimenez, J, Sanchez, M, del Rey, F, Benito, J, Dominguez, A, Revuelta, J L, Moreno, S, Armstrong, J, Forsburg, S L, Cerutti, L, Lowe, T, McCombie, W R, Paulsen, I, Potashkin, J, Shpakovski, G V, Ussery, D, Barrell, B G, Nurse, P

Woodbury, E L. *See under* Ubersax, J A, **425**, 859
Woodgate, R. *See under* Ling, H, **424**, 1083
Woodgett, J. *See under* De Strooper, B, **423**, 392
Woodroffe, R. *See under* Donnelly, C A, **426**, 834
Woodruff, W H. *See under* West, G B, **421**, 713
Woodward, F I. *See under* Hetherington, A M, **424**, 901
Woodward, J. *See under* Wood, V, **421**, 94
Wookey, J. Reply: Earth science: Mantle deformation or processing artefact? (*with* Kendall, J-M, Barruol, G), *Brief communication*, **422**, 136
Woolhouse, M. Don't worry (It's Safe to Eat). The True Story of GM Food, BSE and Foot and Mouth (*by* Rowell, A), *Book review*, **425**, 454
Woolhouse, M E J. *See under* Keeling, M J, **421**, 136
Woollett, L A. *See under* Wu, L, **421**, 942
Woosley, S E. *See under* Hjorth, J, **423**, 847
Worley, P F. *See under* Kim, S J, **426**, 285
Worlock, J M. Applied physics: Son et lumière (*with* Roukes, M L), *News and views*, **421**, 802
Worm, B. *See under* Myers, R A, **423**, 280
Worobey, M. *See under* Walker, P R, **422**, 679
Worthy, T H. *See under* Bunce, M, **425**, 172
Wray, P W. *See under* Mungall, A J, **425**, 805
Wright, A. Solar system: Close encounter of the cometary kind, *News and views*, **422**, 130
Earth science: Subduction the hard way, *News and views*, **423**, 24
Astronomy: Sprinkler system, *News and views*, **423**, 492
Particle physics: Brief lives, *News and views*, **423**, 702
Astronomy: Faking it, *News and views*, **425**, 677
Wright, D. *See under* Porter, R, **426**, 230
Wu, L. Extra-embryonic function of Rb is essential for embryonic development and viability (*with* de Bruin, A, Saavedra, H I, Starovic, M, Trimboll, A, Yang, Y, Opavska, J, Wilson, P, Thompson, J C, Ostrowski, M C, Rosol, T J, Woollett, L A, Weinstein, M, Cross, J C, Robinson, M L, Leone, G), *Letter to Nature*, **421**, 942
The Bloom's syndrome helicase suppresses crossing over during homologous recombination (*with* Hickson, I D), *Letter to Nature*, **426**, 870
Wu, M. *See under* Read, T D, **423**, 81
Wu, T F. *See under* Chan, R C, **423**, 1002
Wu, X. *See under* Lou, Z, **421**, 957
See under Wei, X, **422**, 307, **423**, 197
See under Palatnik, J F, **425**, 257
See under Clyde, D E, **426**, 849
Wu, X-C. Palaeontology: A polydactylous amniote from the Triassic period (*with* Li, Z, Zhou, B-C, Dong, Z-M), *Brief communication*, **426**, 516
Wunderle, E. *See under* Heilig, R, **421**, 601
Wyatt, J C. *See under* Mungall, A J, **425**, 805
Wyatt, M B. Reply: Planetary science: Volcanism or aqueous alteration on Mars? (*with* McSween Jr, H Y), *Brief communication*, **421**, 712
Wylie, K. *See under* Hillier, L W, **424**, 157
Wyndham, T. *See under* McCulloch, M, **421**, 727
Wyneken, J. *See under* Lutz, P L, **423**, 225
Wyns, L. *See under* Dumoulin, M, **424**, 783
Wynshaw-Boris, A. *See under* Hirotsune, S, **423**, 91, **426**, 100
Wysocki, J M. *See under* Sage, J, **424**, 223

Xhen, Z. *See under* Ren, S-X, **422**, 888
Xia, Q-C. *See under* Ren, S-X, **422**, 888
Xiang, Z. *See under* Wood, V, **421**, 94
Xiao, B. Structure and catalytic mechanism of the human histone methyltransferase SET7/9 (*with* Jing, C, Wilson, J R, Walker, P A, Vasisht, N, Kelly, G, Howell, S, Taylor, I A, Blackburn, G M, Gamblin, S J), *Letter to Nature*, **421**, 652
Xiao, S. *See under* Kaufman, A J, **425**, 279
Xiao, Y. A spatially organized representation of colour in macaque cortical area V2 (*with* Wang, Y, Felleman, D J), *Letter to Nature*, **421**, 535
Xiong, G. *See under* Li, X, **422**, 618
Xiong, W. *See under* Zhou, X J, **423**, 398
A positive-feedback-based bistable 'memory module' that governs a cell fate decision (*with* Ferrell Jr, J E), *Letter to Nature*, **426**, 460
Xu, H. *See under* Ren, S-X, **422**, 888
See under Wang, Z, **423**, 555
Xu, J-G. *See under* Ren, S-X, **422**, 888
Xu, L. *See under* Liu, Y, **423**, 49
See under Sullivan, N J, **424**, 681
BTB proteins are substrate-specific adaptors in an SCF-like modular ubiquitin ligase containing CUL-3 (*with* Wei, Y, Reboul, J, aglio, P, Shin, T-H, Vidal, M, Elledge, S J, Harper, J W), *Letter to Nature*, **425**, 316
Xu, R. *See under* Tang, X D, **425**, 531
See under Wikramanayake, A H, **426**, 446
Xu, X. Four-winged dinosaurs from China (*with* Zhou, Z, Wang, X, Kuang, X, Zhang, F, Du, X), *Article*, **421**, 335

Yablon, A D. *See under* Sundar, V C, **424**, 899
Yaffe, M B. *See under* Endy, D, **426**, 614
Yagami, K-I. *See under* Hirotsune, S, **423**, 91, **426**, 100
Yaghi, O M. Reticular synthesis and the design of new materials (*with* O'Keeffe, M, Ockwig, N W, Chae, H K, Eddaoudi, M, Kim, J), *Review article*, **423**, 705
Yago, T. *See under* Marshall, B T, **423**, 190
Yahara, T. *See under* Saunders, K, **422**, 831
Yajnik, V. *See under* Thayer, S P, **425**, 851
Yakoviev, V S. *See under* Baltuška, A, **422**, 189
Yakovlev, V S. *See under* Baltuška, A, **421**, 611
Yakushevska, A E. *See under* Ruban, A V, **421**, 648
Yamada, K M. *See under* Sakai, T, **423**, 876
Cell biology: Tumour jailbreak, *News and views*, **424**, 889
Yamada, T K. *See under* Wada, S, **426**, 278
Yamaguchi, S. *See under* Takemaru, K-I, **422**, 905
Yamaguchi, Y. *See under* Ogita, S, **423**, 823
Yamahana, Y. *See under* Tomeoka, K, **423**, 60
Yamahira, S. *See under* Nakazaki, T, **421**, 170
Yamaki, S. *See under* Nanayama, F, **424**, 660
Yamamoto, T. Experimental extraction of an entangled photon pair from two identically decohered pairs (*with* Koashi, M, Ozdemir, S K, Imoto, N), *Letter to Nature*, **421**, 343
See under Pashkin, Yu A, **421**, 823
Yamamoto, Y. *See under* Ohtake, F, **423**, 545
Histone H3 phosphorylation by IKK-a is critical for cytokine-induced gene expression (*with* Verma, U N, Prajapati, S, Kwak, Y-T, Gaynor, R B), *Letter to Nature*, **423**, 655
Yamamura, T. *See under* Yoshimura, T, **426**, 178
Yamanaka, S. *See under* Takahashi, K, **423**, 541
Yamaoka, H. *See under* Fox, D W, **422**, 284
See under Uemura, M, **423**, 843
Yamashita, A. *See under* Takeda, S, **424**, 35
Yamauchi, T. Cloning of adiponectin receptors that mediate antodiabetic metabolic effects (*with* Kamon, J, Ito, Y, Tsuchida, A, Yokomizo, T, Kita, S, Sugiyama, T, Miyagishi, M, Hara, K, Tsunoda, M, Murakami, K, Ohteki, T, Uchida, S, Takekawa, S, Waki, H, Tsuno, N H, Shibata, Y, Terauchi, Y, Froguel, P, Tobe, K, Koyasu, S, Taira, K, Kitamura, T, Shimizu, T, Nagal, R, Kadowaki, T), *Letter to Nature*, **423**, 762
Yamazaki, D. WAVE2 is required for directed cell migration and cardiovascular development (*with* Suetsugu, S, Miki, H, Kataoka, Y, Nishikawa, S-I, Fujiwara, T, Yoshida, N, Takenawa, T), *Letter to Nature*, **424**, 452
Yamazaki, S. *See under* Sakaguchi, N, **426**, 454
Yan, H. *See under* Goldberger, J, **422**, 599
Yan, K S. Structure and conserved RNA binding of the PAZ domain (*with* Yan, S, Farooq, A, Han, A, Zeng, L, Zhou, M-M), *Letter to Nature*, **426**, 469
Yan, S. *See under* Yan, K S, **426**, 469
Yanagisawa, J. *See under* Ohtake, F, **423**, 545
Yanagisawa, S. Differential regulation of EIN3 stability by glucose and ethylene signalling in plants (*with* Yoo, S-D, Sheen, J), *Letter to Nature*, **425**, 521
Yanai, H. *See under* Takaoka, A, **424**, 516
Yang, B. *See under* Zhang, H, **424**, 94
Yang, C-h. *See under* Ma, D, **421**, 543
Yang, H. *See under* Wang, H, **421**, 384
See under Mikkola, H K A, **421**, 547
Yang, J-Y. *See under* Seo, H S, **423**, 995
Yang, K-L. *See under* He, J, **424**, 62
Yang, P. *See under* Goldberger, J, **422**, 599
Wires on water, *News and views*, **425**, 243
Yang, S-P. *See under* Skaletsky, H, **423**, 825
See under Hillier, L W, **424**, 157
Yang, W. *See under* Ling, H, **424**, 1083
Yang, W L. *See under* Zhou, X J, **423**, 398
Yang, W Y. Folding at the speed limit (*with* Gruebele, M), *Letter to Nature*, **423**, 193
Yang, X. *See under* Krasilnikov, A S, **421**, 760
Yang, Y. *See under* Wu, L, **421**, 942
See under Takagi, J, **424**, 969
Yang, Z-Y. *See under* Sullivan, N J, **424**, 681
Yano, J-I. Outer planets: Origins of atmospheric zonal winds (*with* Talagrand, O, Drossart, P), *Brief communication*, **421**, 36
Yano, M. *See under* Hayama, R, **422**, 719
Yanofsky, M F. *See under* Pinyopich, A, **424**, 85
Yao, M. *See under* Ose, T, **422**, 185
Yao, Z-J. *See under* Ren, S-X, **422**, 888
Yarden, O. *See under* Galagan, J E, **422**, 859
Yashayaev, I. *See under* Curry, R, **426**, 826
Yasuda, S. *See under* Hanada, K, **426**, 803
Yasui, K. *See under* Shu, D-G, **421**, 526
Yasuo, S. *See under* Yoshimura, T, **426**, 178
Yates III, J R. *See under* Willert, K, **423**, 448
Yates, J R. *See under* Wohlschlegel, J A, **425**, 671
Yau, K-W. *See under* Hattar, S, **424**, 76
See under Kefalov, V, **425**, 526
Ye, K. Recognition of small interfering RNA by a viral suppressor of RNA silencing (*with* Malinina, L, Patel, D J), *Letter to Nature*, **426**, 874
Ye, L. *See under* Zhang, J, **425**, 836
Yeh, W-C. Immunology: Another toll road (*with* Chen, N-J), *News and views*, **424**, 736
Yengo, C M. *See under* Coureux, P-D, **425**, 419
Yeo, M. *See under* Gaunt, M W, **421**, 936
Yethiraj, A. A colloidal model system with an interaction tunable from hard sphere to soft and dipolar (*with* van Blaaderen, A), *Letter to Nature*, **421**, 513
Yim, J. *See under* Kim, J, **424**, 81
See under Lee, Y, **425**, 415
Yin, H-F. *See under* Ren, S-X, **422**, 888
Yin, Y. PAC1 phosphatase is a transcription target of p53 in signalling apoptosis and growth suppression (*with* Liu, Y-X, Jin, Y J, Hall, E J, Barrett, J C), *Letter to Nature*, **422**, 527
Yoder, A D. Single of origin of Malagasy Carnivora from an African ancestor (*with* Burns, M M, Zehr, S, Delefosse, T, Veron, G, Goodman, S M, Flynn, J J), *Letter to Nature*, **421**, 734
Yohda, M. *See under* Ishii, D, **423**, 628
Yohe, G. *See under* Parmesan, C, **421**, 37
Yokoi, S. *See under* Hayama, R, **422**, 719
Yokomizo, T. *See under* Yamauchi, T, **423**, 762
Yonekura, K. Complete atomic model of the bacterial flagellar filament by electron cryomicroscopy (*with* Makl-Yonekura, S, Namba, K), *Article*, **424**, 643
Yong, C-L. *See under* Lamarre, D, **426**, 186, **426**, 314
Yoo, J H. *See under* Murakami, Y, **423**, 965
Yoo, S-D. *See under* Yanagisawa, S, **425**, 521
Yoon, J C. *See under* Puigserver, P, **423**, 550
Yoon, J M. *See under* Sung, B-J, **425**, 98
York, D G. *See under* Inada, N, **426**, 810
York, H. The National Labs: Science in an American System 1947–1974 (*by* Westwick, P J), *Book review*, **425**, 240
Yoshida, N. *See under* Watanabe, O, **422**, 509
See under Hirotsune, S, **423**, 91
See under Yamazaki, D, **424**, 452, **426**, 100
Yoshida, T. *See under* Zhou, X J, **423**, 398
Rapid evolution drives ecological dynamics in a predator–prey system (*with* Jones, L E, Ellner, S P, Fussmann, G F, Hairston Jr, N G), *Letter to Nature*, **424**, 303
Yoshikawa, S. Wnt-mediated axon guidance via the *Drosophila* Derailed receptor (*with* McKinnon, R D, Kokel, M, Thomas, J B), *Article*, **422**, 583
Yoshiki, A. *See under* Hirotsune, S, **423**, 91, **426**, 100
Yoshimura, T. Light-induced hormone conversion of T_4 to T_3 regulates photoperiodic response of gonads in birds (*with* Yasuo, S, Watanabe, M, Iigo, M, Yamamura, T, Hirunagi, K, Ebihara, S), *Letter to Nature*, **426**, 178
Yoshino, T. Core formation in planetesimals triggered by permeable flow (*with* Walter, M J, Katsura, T), *Letter to Nature*, **422**, 154
Yoshioka, H. *See under* Ishii, H, **426**, 540
Yost, S. *See under* Fox, D W, **422**, 284
See under Berger, E, **426**, 154
Yost, S A. *See under* Price, P A, **423**, 844
Youn, H-D. *See under* Han, A, **422**, 730
Young, A C. *See under* Thomas, J W, **424**, 788
Young, E C. *See under* Zagotta, W N, **425**, 200
Young, K. *See under* Sahai, R, **426**, 261
Young, L. *See under* Mungall, A J, **425**, 805
Young, S. Prof: The Life of Frederick Lindemann (*by* Fort, A), *Book review*, **425**, 770
Younger, R M. *See under* Mungall, A J, **425**, 805
Yu, M. *See under* Wang, H, **421**, 384
Yu, X G. *See under* Altfeld, M, **423**, 461
Yu, Y. Directed bending of a polymer film by light (*with* Nakano, M, Ikeda, T), *Brief communication*, **425**, 145
Yu, Y-t N. *See under* Velicer, G J, **425**, 75
Yu, Z-X. *See under* Liou, Y-C, **424**, 556
Yuan, J. *See under* Sánchez, I, **421**, 373
Yuan, J P. *See under* Kim, S J, **426**, 285
Yuan, M. *See under* Li, X, **422**, 618
Yudkin, M. *See under* Blakemore, C, **421**, 314
Yun, W. *See under* Wang, Y, **424**, 50
Yurimoto, H. *See under* Itoh, S, **423**, 728
Yuste, R. *See under* Cossart, R, **423**, 283
Yuzvinsky, T D. *See under* Fennimore, A M, **424**, 408

Zaanen, J. Pebbles in the nodal pond, *News and views*, **422**, 569
See under van der Marel, D, **425**, 271
Zabner, J. *See under* Vermeer, P D, **422**, 322
Zador, A M. *See under* Wehr, M, **426**, 442
Zagotta, W N. Structural basis for modulation and agonist specificity of HCN pacemaker channels (*with* Olivier, N B, Black, K D, Young, E C, Olson, R, Gouaux, E), *Letter to Nature*, **425**, 200
Zagt, R J. Foundations of Tropical Forest Biology: Classic Papers with Commentaries (*by* Chazdon, R L, Whitmore, T C), *Book review*, **421**, 20
Zahn, R. Global change: Monsson linkages, *News and views*, **421**, 324
Zak, D R. *See under* Percy, K E, **421**, 190
Zallen, D T. Despite Franklin's work, Wilkins earned his Nobel, *Correspondence*, **425**, 15
Zaman, G. *See under* Lee, K, **424**, 389
Zammataro, L. *See under* Serini, G, **424**, 391, **424**, 974
Zampa, N. *See under* Casolino, M, **422**, 680
Zandonella, C. The beat goes on, *News feature*, **421**, 884
The tiny toolkit, *News feature*, **423**, 10
Dying cells dragged screaming under the microscope, *News*, **423**, 106
T Ray specs, *News feature*, **424**, 721
Zane, L. *See under* Evans, J P, **421**, 360
Zanivan, S. *See under* Serini, G, **424**, 391, **424**, 974
Zankowski, P. *See under* Thro, A M, **422**, 559
Zarrinpar, A. Optimization of specificity in a cellular protein interaction network by negative selection (*with* Park, S-H, Lim, W A), *Letter to Nature*, **426**, 676
Zatman, S A. *See under* Stegman, D R, **421**, 143
Zatorre, R. *See under* Peretz, I, **426**, 386
Zavlalov, A V. *See under* Rawat, U B S, **421**, 87
See under Klaholz, B P, **421**, 90
Zazula, G D. Ice-age steppe vegetation in east Beringia (*with* Froese, D G, Schweger, C E, Mathewes, R W, Beaudoin, A B, Telka, A M, Harington, C R, Westgate, J A), *Brief communication*, **423**, 603
Zazzeroni, F. Reply: Cell signalling: Cell survival and a Gadd-45-factor deficiency (*with* Papa, S, De Smaele, E, Franzoso, G), *Brief communication*, **424**, 742
Zbinden, H. *See under* Marcikic, I, **421**, 509

Zeff, B W. Measuring intense rotation and dissipation in turbulent flows (*with* Lanterman, D D, McAllister, R, Roy, R, Kostelich, E J, Lathrop, D P), *Letter to Nature*, **421**, 146
Zegers, M. *See under* Mostov, K, **422**, 267
Zehr, S. *See under* Yoder, A D, **421**, 734
Zeilinger, A. *See under* Pan, J-W, **423**, 417
Zell, J. *See under* Hemmi, J M, **421**, 160
Zellinger, A. *See under* Pan, J-W, **421**, 721
Zelter, A. *See under* Galagan, J E, **422**, 859
Zelzer, E. The genetic basis for skeletal diseases (*with* Olsen, B R), *Insight review article*, **423**, 343
Zeng, D. *See under* Li, X, **422**, 618
Zeng, L. *See under* Yan, K S, **426**, 469
Zeng, R. *See under* Ren, S-X, **422**, 888
Zerbetto, F. *See under* Leigh, D A, **424**, 174
Zettl, A. *See under* Fennimore, A M, **424**, 408
Zezas, A. *See under* Nicastro, F, **421**, 719
Zhai, D. *See under* Guo, B, **423**, 456
Zhang, C. *See under* Zhang, H, **424**, 94
Zhang, C-Y. *See under* Danial, N N, **424**, 952
Zhang, F. *See under* Xu, X, **421**, 335
Zhang, G. *See under* Liu, Y, **423**, 49
Zhang, H. The cytidine deaminase CEM15 induces hypermutation in newly synthesized HIV-1 DNA (*with* Yang, B, Pomerantz, R J, Zhang, C, Arunachalam, S C, Gao, L), *Letter to Nature*, **424**, 94
  Water-driven structure transformation in nanoparticles at room temperature (*with* Gilbert, B, Huang, F, Banfield, J F), *Letter to Nature*, **424**, 1025
Zhang, J. Identification of the haematopoietic stem cell niche and control of the niche size (*with* Niu, C, Ye, L, Huang, H, He, X, Tong, W-G, Ross, J, Haug, J, Johnson, T, Feng, J Q, Harris, S, Wiedemann, L M, Mishina, Y, Li, L), *Letter to Nature*, **425**, 836
  See under Li, X, **426**, 247
Zhang, J Y. *See under* Dajee, M, **421**, 639
Zhang, L. *See under* Kamal, A, **425**, 407
Zhang, L I. Topography and synaptic shaping of direction selectivity in primary auditory cortex (*with* Tan, A Y Y, Schreiner, C E, Merzenich, M M), *Letter to Nature*, **424**, 201
Zhang, L-H. *See under* Thomas, J W, **424**, 788
Zhang, L-L. *See under* Howitz, K T, **425**, 191
Zhang, R. *See under* Liu, Y, **423**, 49
  See under Li, D, **423**, 512, **425**, 102
Zhang, S-C. *See under* Kang, H J, **423**, 522, **426**, 140
Zhang, W. *See under* Missler, M, **423**, 939
Zhang, X. *See under* Jiang, N, **421**, 163
Zhang, X-L. *See under* Shu, D-G, **421**, 526
Zhang, Y. *See under* Goldberger, J, **422**, 599
  See under Ren, S-X, **422**, 888
  See under Takemaru, K-I, **422**, 905
  See under Skumryev, V, **423**, 850
  See under Vellai, T, **426**, 620
Zhang, Y E. *See under* Derynck, R, **425**, 577
Zhang, Y-Q. *See under* Ren, S-X, **422**, 888
Zhang, Y-X. *See under* Ren, S-X, **422**, 888
Zhang, Z J. *See under* Jones, J M, **425**, 721
Zhang, Z-F. *See under* Shu, D-G, **421**, 526
Zhao, B. *See under* Thomas, J W, **424**, 788
Zhao, G-P. *See under* Ren, S-X, **422**, 888
Zhao, R. *See under* Li, D, **423**, 512, **425**, 102
Zhao, Z X. *See under* Zhou, X J, **423**, 398
Zharikov, S. *See under* Greiner, J, **426**, 157
Zheng, N. Synthetic design of crystalline inorganic chalcogenides exhibiting fast-ion conductivity (*with* Bu, X, Feng, P), *Letter to Nature*, **426**, 428
Zheng, S. *See under* Zhou, Z, **423**, 821
Zheng, W. *See under* Inada, N, **426**, 810
Zhong, W. CUL-4 ubiquitin ligase maintains genome stability by restraining DNA-replication licensing (*with* Feng, H, Santiago, F E, Kipreos, E T), *Letter to Nature*, **423**, 885
Zhou, B-C. *See under* Wu, X-C, **426**, 516
Zhou, F. *See under* Zhou, X J, **423**, 398
Zhou, J. *See under* Swingler, S, **424**, 213
Zhou, M-M. *See under* Yan, K S, **426**, 469
Zhou, X J. High-temperature superconductors: Universal nodal Fermi velocity (*with* Yoshida, T, Lanzara, A, Bogdanov, P V, Kellar, S A, Shen, K M, Yang, W L, Ronning, F, Sasagawa, T, Kakashita, T, Noda, T, Eisaki, H, Uchida, S, Lin, C T, Zhou, F, Xiong, W, Ti, W X, Zhao, Z X, Fujimori, A, Hussain, Z, Shen, Z-X), *Brief communication*, **423**, 398
Zhou, X Z. *See under* Liou, Y-C, **424**, 556
Zhou, Y. *See under* Hillier, L W, **424**, 157
Zhou, Z. *See under* Xu, X, **421**, 335
  An exceptionally preserved Lower Cretaceous ecosystem (*with* Barrett, P M, Hilton, J), *Review article*, **421**, 807
  The missing link in Ginkgo evolution (*with* Zheng, S), *Brief communication*, **423**, 821
Zhu, B. *See under* Thomas, J W, **424**, 788
Zhu, C. *See under* Marshall, B T, **423**, 190
Zhu, G-F. *See under* Ren, S-X, **422**, 888
Zhu, H. *See under* Phizicky, E, **422**, 208
Zibrov, A S. *See under* Bajcsy, M, **426**, 638
Ziegler, C. *See under* Leigh Jr, E G, **424**, 132
Zilhao, J. Portrait of the Artist as a Child: The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context (*with* Trinkaus, E), *Book review by* Bahn, P, **424**, 490
Zimmer, C. The Story of Life (*by* Southwood, R), *Book review*, **422**, 815
Zimmerman, R. Leaving Earth: Space Stations, Rival Superpowers, and the Quest for Interplanetary Travel, *Book review by* Siddiqi, A A, **426**, 498
Zimmermann, W. *See under* Wood, V, **421**, 94
Zinkernagel, R M. *See under* Planz, O, **426**, 474
Zinser, E R. *See under* Rocap, G, **424**, 1042
Zipkin, R E. *See under* Howitz, K T, **425**, 191
Zipperien, P. *See under* Kamath, R S, **421**, 231
Zirker, J B. Journey From the Center of the Sun, *Book review by* Klimchuk, J A, **421**, 894
Zivkovic, D. *See under* Hurlstone, A F L, **425**, 633
Zmuidzinas, J. *See under* Day, P K, **425**, 817
Zon, L I. *See under* Davidson, A J, **425**, 300
Zones, S I. *See under* Lee, H, **425**, 385
Zoomer, H R. *See under* De Deyn, G B, **422**, 711
Zorman, C A. *See under* Ming, X, **421**, 496
Zschokke, S. Palaeontology: Spider-web silk from Early Cretaceous, *Brief communication*, **424**, 636
Zu Rhein, G. *See under* Klatzo, I, **421**, 19
Zu, X Z. *See under* Schön, J H, **422**, 92
Zuber, M T. Model for magnetic mystery, *News and views*, **421**, 119
Zühlsdorff, L. *See under* Fisher, A T, **421**, 618
Zurawski, S. *See under* Cua, D J, **421**, 744
Zuroff, M. *See under* Niewoehner, W A, **422**, 395
Zwieniecki, M A. *See under* Holbrook, N M, **425**, 361
Zwiers, F W. *See under* Gillett, N P, **422**, 292
Zxiong, H. *See under* Ren, S-X, **422**, 888

Naturejobs 2003

The following articles appeared in the Naturejobs section on the issue dates listed.

A change of pace in western Japan, **July 17**
A fresh outlook for eastern Germany, **May 8**
A helping hand for grant proposals, **November 6**
A permanence problem in the United States, **March 20**
A trip to the crime labs, **February 20**

Banding together for a better future, **January 9**
Benefiting as a part-time teacher, **July 3**
Blurring the line between bench and bedside, **August 28**
Bridging the technological gap, **October 23**
Building a better scientific rapport, **August 14**

Canada invests in the future, **September 4**
Changing attitudes in the world of drug discovery, **April 3**
Chicago's physical stature, **August 7**

Europe attempts to promote women scientists, **November 13**
Europe seeks mobility for students, **January 16**
Europe takes on the training load, **September 18**
Europe's struggle to strengthen its science base, **March 20**

Finding the right postdoc position, **April 17**
Focus on Biomedical & Tissue Engineering, **March 13**
Focus on Biomedical Research, **November 13**
Focus on Biotechnology and 50 years of DNA, **January 23**
Focus on Biotechnology, **June 12**
Focus on Cancer Research, **March 27**
Focus on Cell Biology, **December 4**
Focus on Genetics, **April 24, October 23**
Focus on Graduate Programs, **September 18**
Focus on Materials Research, **April 10**
Focus on Materials Science, **November 27**
Focus on Microbiology, **May 8**
Focus on Neuroscience, **July 3, October 30**
Focus on Pharmaceuticals & Biotechnology, **April 3**
Focus on Physical Sciences, **February 27**
Focus on Postdocs, **February 13, September 4**
Focus on Postdocs in the USA and Canada, **February 13**
Focus on Proteomics, **May 29**
Focus on Studentships, **February 13, November 6**
Focus on University Faculty, **March 20**
From physics to consultancy, **September 11**

German postdocs face a difficult future, **June 19**
Get organized, **December 4**
Getting your skills up to speed, **July 10**
Growing opportunities for US biomedical engineering, **September 18**

Highlight Austria, **May 29**
Highlight French speaking countries, **November 20**
Highlight Germany, **March 27**
Highlight Harvard University, **November 27**
Highlight Ireland, **October 30**
Highlight National Institutes of Health, **December 4**
Highlight Netherlands and Flanders, **March 20**
Highlight opportunities in francophone countries, **May 22**
Highlight Scotland, **November 13**
Highlight Sweden, **June 12**
Highlight Switzerland, **September 11**
Hot property, **February 13**

Making the move into science policy, **March 27**
Making the switch from science to business, **October 30**
Molecular biology in Heidelberg, **May 15**
Movers, **January 30, February 13, March 6, May 22, June 26, July 24, August 21, October 9, November 6, December 4**

Nuts & Bolts, **October 9, November 6**

Paris breathes life into science, **April 10**
Postdocs cross disciplines, **October 2**
Proteomics: the land of opportunity, **May 29**

Revitalizing the north of England, **September 25**
Rhone-Alpes heads for the summit, **November 20**
Room for entrepreneurs, **September 18**

Sharpening the skills of medicinal chemists, **July 31**
Shedding light on stem-cell research, **April 24**
Singapore's big push for biology, **October 16**
Spolight on Singapore, **October 16**
Spotlight on the north of England, **September 25**
Spotlight on the Rhone-Alpes, **November 20**
Spotlight on San Diego, **March 13**
Spotlight on Taiwan, **February 6**
Spotlight on western Japan, **July 17**
Swapping the lab for the law, **June 5**

Taiwan — land of career opportunity, **February 6**
Taking control of your destiny, **May 1**
The birth of biotechnology, **January 23**
The changing needs of drug discovery, **July 31**
The developing role of HIV/AIDS research, **December 11**
The lure of San Diego, **March 13**
The merging world of biophysics, **February 27**
The problems of being a postdoc, **September 11**
The rise of functional genomics, **October 23**
The rise and rise of nanotechnology, **November 27**
The spread of epidemiology, **June 12**

Using proteins to beat the recession, **May 29**

Visa trouble in the United States, **March 6**

Women as mentors, **December 4**

Young Scientist, **October 9, November 6**

Nature subject index for volumes 421–426 2003

A-bomb, Bomb dosimetry unlikely to change risk estimates, *Correspondence*, Mossman, K L, **425**, 237

AAV vectors, Looking into the safety of AAV vectors, *Correspondence*, Kay, M A, Nakai, H, **424**, 251

Abel Prize, Life's work adds up to prize for maths master, *News in brief*, **422**, 552

Abl protein, Cancer: Escape from inhibition, *News and views*, Courtneidge, S A, **422**, 827

Aborigines, Bone archives face prospect of dispersal, *News*, Giles, J, **426**, 109

Abraham, Spencer, Don't mention the war, *Opinion*, **423**, 207

US support for Spain triggers unease over fusion project, *News*, Brumfiel, G, Butler, D, **423**, 211

Abrikosov, Alexei, Super-cool theories secure physics prize, *News*, Tomlin, S, **425**, 548

abyssal plain, *In situ* experimental evidence of the fate of a phytodetritus pulse at the abyssal sea floor, *Letter to Nature*, Witte, U, Wenzhöfer, F, Sommer, S, Boetius, A, Heinz, P, Aberle, N, Sand, M, Cremer, A, Abraham, W-R, Jorgensen, B B, Pfannkuche, O, **424**, 763

accelerator physics, Accelerator physics: In the wake of success, *News and views*, Bingham, R, **424**, 258

Access Grid system, Virtual solution to carbon cost of conferences, *Correspondence*, Reay, D S, **424**, 251

accessibility, Clear as mud, *News feature*, Knight, J, **423**, 376

acetylation, Transcription factor IIB acetylates itself to regulate transcription, *Letter to Nature*, Choi, C H, Hiromura, M, Usheva, A, **424**, 965

acetylcholine, Nicotinic acetylcholine receptor α7 subunit is an essential regulator of inflammation, *Letter to Nature*, Wang, H, Yu, M, Ochani, M, Amella, C A, Tanovic, M, Susarla, S, Li, J H, Wang, H, Yang, H, Ulloa, L, Al-Abed, Y, Czura, C J, Tracey, K J, **421**, 384

Cell biology: Torpedo smart gel, *News and views*, Pilcher, H R, **423**, 30

acetylcholine receptor, Structure and gating mechanism of the acetylcholine receptor pore, *Article*, Miyazawa, A, Fujiyoshi, Y, Unwin, N, **423**, 949

Achernar, Astrophysics: Star spins flat out, *News and views*, Ball, P, **423**, 935

acids, Physical chemistry: Salts leave fingerprints in acid, *News and views*, Ball, P, **422**, 577

acoustic discrimination, Neurobiology: The importance of depression, *News and views*, Stevens, C F, **421**, 29

Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **421**, 66

Corrigendum: Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **423**, 197

acoustics, Acoustics: Guitar feedback tamed, *News and views*, Ball, P, **423**, 702

Acoustics: New bells ring sweeter, *News and views*, Ball, P, **424**, 265

Acrocephalus sechellensis, Avian behaviour: Altruism and infidelity among warblers, *Brief communication*, Richardson, D S, Komdeur, J, Burke, T, **422**, 580

Acropora millepora, Coral reveals ancient origins of human genes, *News*, Dennis, C, **426**, 744

actin, Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity, *Letter to Nature*, Speck, O, Hughes, S C, Noren, N K, Kulikauskas, R M, Fehon, R G, **421**, 83

Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37

Cell biology: Fast-track for actin, *News and views*, Bucci, M, **422**, 577

Structure of the core domain of human cardiac troponin in the Ca^{2+}-saturated form, *Article*, Takeda, S, Yamashita, A, Maeda, K, Maeda, Y, **424**, 35

Electron cryo-microscopy shows how strong binding of myosin to actin releases nucleotide, *Letter to Nature*, Holmes, K C, Angert, I, Kull, F J, Jahn, W, Schröder, R R, **425**, 423

Cell biology: Stretch and split, *News and views*, Pearson, H, **425**, 914

actin filaments, The cytoskeleton, cellular motility and the reductionist agenda, *Insight overview*, Pollard, T D, **422**, 741

Cell division, *Insight review article*, Scholey, J M, Brust-Mascher, I, Mogilner, A, **422**, 746

Molecular motors, *Insight review article*, Schliwa, M, Woehlke, G, **422**, 759

Adaptation of core mechanisms to generate cell polarity, *Insight review article*, Nelson, W J, **422**, 766

Microbial pathogenesis and cytoskeletal function, *Insight review article*, Gruenheid, S, Finlay, B B, **422**, 775

actions, Action plans used in action observation, *Letter to Nature*, Flanagan, J R, Johansson, R S, **424**, 769

activation-induced cytidine deaminase, Transcription-targeted DNA deamination by the AID antibody diversification enzyme, *Letter to Nature*, Chaudhuri, J, Tian, M, Khuong, C, Chua, K, Pinaud, E, Alt, F W, **422**, 726

actuators, Rotational actuators based on carbon nanotubes, *Letter to Nature*, Fennimore, A M, Yuzvinsky, T D, Han, W-Q, Fuhrer, M S, Cumings, J, Zettl, A, **424**, 408

acute lymphoblastic leukaemia, Deficiency of the adaptor SLP-65 in pre-B-cell acute lymphoblastic leukaemia, *Letter to Nature*, Jumaa, H, Bossaller, L, Portugai, K, Storch, B, Lotz, M, Flemming, A, Schrappe, M, Postila, V, Riikonen, P, Pelkonen, J, Niemeyer, C M, Reth, M, **423**, 452

adaptation, Darwin and Design: Does Evolution Have a Purpose?, Ruse, M, *Book review by* Ridley, M, **423**, 686

Adaptive evolution drives divergence of a hybrid inviability gene between two species of *Drosophila*, *Article*, Presgraves, D C, Balagopalan, L, Abmayr, S M, Orr, H A, **423**, 715

addictive drugs, Extinction-induced upregulation in AMPA receptors reduces cocaine-seeking behaviour, *Letter to Nature*, Sutton, M A, Schmidt, E F, Choi, K-H, Schad, C A, Whisler, K, Simmons, D, Karanian, D A, Monteggia, L M, Neve, R L, Self, D W, **421**, 70

Subsecond dopamine release promotes cocaine seeking, *Letter to Nature*, Phillips, P E M, Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M, **422**, 614

Erratum: Subsecond dopamine release promotes cocaine seeking, *Letter to Nature*, Phillips, P E M, Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M, **423**, 461

Adelie penguin, The Adelie Penguin: Bellwether of Climate Change, Ainley, D G, *Book review by* Le Maho, Y, Gremillet, D, **422**, 264

adenomatous polyposis coli, Cdc42 regulates GSK-3β and adenomatous polyposis coli to control cell polarity, *Letter to Nature*, Etienne-Manneville, S, Hall, A, **421**, 753

adenosine triphosphate, Control of dynamic CFTR selectivity by glutamate and ATP in epithelial cells, *Letter to Nature*, Reddy, M M, Quinton, P M, **423**, 756

Structure of mitochondrial ADP/ATP carrier in complex with carboxyatractyloside, *Article*, Pebay-Peyroula, E, Dahout-Gonzalez, C, Kahn, R, Trézéguet, V, Lauquin, G J-M, Brandolin, G, **426**, 39

adhesion molecules, Direct observation of catch bonds involving cell-adhesion molecules, *Letter to Nature*, Marshall, B T, Long, M, Piper, J W, Yago, T, McEver, R P, Zhu, C, **423**, 190

adiponectin, Cloning of adiponectin receptors that mediate antidiabetic metabolic effects, *Letter to Nature*, Yamauchi, T, Kamon, J, Ito, Y, Tsuchida, A, Yokomizo, T, Kita, S, Sugiyama, T, Miyagishi, M, Hara, K, Tsunoda, M, Murakami, K, Ohteki, T, Uchida, S, Takekawa, S, Waki, H, Tsuno, N H, Shibata, Y, Terauchi, Y, Froguel, P, Tobe, K, Koyasu, S, Taira, K, Kitamura, T, Shimizu, T, Nagal, R, Kadowaki, T, **423**, 762

Advisory Committee on Protection of the Sea, Arctic clean-up project aims to confront Soviet pollution legacy, *News in brief*, **425**, 892

Aedes aegypti, Epidemiology: Conditions for dengue fever, *News in brief*, Clarke, T, **421**, 493

Aeolus satellite, Laser satellite blows wind of change for weather studies, *News in brief*, **425**, 757

aerial photography, Taking it on trust, *Science in culture*, Kemp, M, **424**, 618

Aircraft give a new view of jellyfish behaviour, *Correspondence*, Hays, G C, Houghton, J D R, **426**, 383

aerodynamics, Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363

aeroplanes, The Wright Brothers and the Invention of the Aerial Eagle, Crouch, T, Jakab, P L, *Book review by* Nahum, A, **426**, 765

Aeropyrum pernix, X-ray structure of a voltage-dependent K^+ channel, *Article*, Jiang, Y, Lee, A, Chen, J, Ruta, V, Cadene, M, Chait, B T, MacKinnon, R, **423**, 33

aerosols, Detection of human influence on sea-level pressure, *Letter to Nature*, Gillett, N P, Zwiers, F W, Weaver, A J, Stott, P A, **422**, 292

aetiology, Aetiology: Koch's postulates fulfilled for SARS virus, *Brief communication*, Fouchier, R A M, Kuiken, T, Schutten, M, van Amerongen, G, van Doornum, G J J, van den Hoogen, B G, Peiris, M, Lim, W, Stohr, K, Osterhaus, A D M E, **423**, 240

Affymetrix, Companies vie to put all your genes on a chip, *News*, Dennis, C, **424**, 605

Africa, African vegetation controlled by tropical sea surface temperatures in the mid-Pleistocene period, *Letter to Nature*, Schefuß, E, Schouten, S, Jansen, J H F, Damste, J S S, **422**, 418

German foundation calls for African research partners, *News in brief*, **424**, 9

African project seeks model solution to water shortage, *News*, Schiermeier, Q, **424**, 359

In praise of Gates, *Editorial*, **425**, 435

African states pledge increased spending on research, *News*, Cherry, M, **426**, 109

A continent divided, *News feature*, Masood, E, **426**, 224

Ship row flags up funding of war in Africa, *News*, Dalton, R, **426**, 485

Africa, disease, Joint European plan will tackle Africa's killer diseases, *News*, McDowell, N, **421**, 5

Congolese health officials confirm Ebola outbreak, *News in brief*, **421**, 882

Sexual transmission of HIV in Africa, *Brief communication*, Walker, P R, Worobey, M, Rambaut, A, Holmes, E C, Pybus, O G, **422**, 679

Africa, endangered species, The law of the jungle, *News feature*, Whitfield, J, **421**, 8

Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551

Catastrophic ape decline in western equatorial Africa, *Letter to Nature*, Walsh, P D, Abernethy, K A, Bermejo, M, Beyers, R, De Wachter, P, Ella Akou, M, Huijbregts, B, Idiata Mambounga, D, Kamdem Toham, A, Kilbourn, A M, Lahm, S A, Latour, S, Maisels, F, Mbina, C, Mihindou, Y, Ndong Obiang, S, Ntsame Effa, E, Starkey, M P, Telfer, P, Thibault, M, Tutin, C E G, White, L J T, Wilkie, D S, **422**, 611

Africa, fossils, Genetics to unlock secrets of our African past, *News*, Cherry, M, **422**, 460

Human evolution: Out of Ethiopia, *News and views*, Stringer, C, **423**, 692

Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, White, T D, Asfaw, B, DeGusta, D, Gilbert, H, Richards, G D, Suwa, G, Howell, F C, **423**, 742

Stratigraphic, chronological and behavioural contexts of Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, Clark, J D, Beyene, Y, WoldeGabriel, G, Hart, W K, Renne, P R, Gilbert, H, Defleur, A, Suwa, G, Katoh, S, Ludwig, K R, Boisserie, J-R, Asfaw, B, White, T D, **423**, 747

Africa, transgenic crops, Genes for Africa: Genetically Modified Crops in the Developing World, Thomson, J A, *Book review by* Conway, G, **421**, 478

AfricaBio, A continent divided, *News feature*, Masood, E, **426**, 224

African Agricultural Technology Foundation, Biotech firms join charities in drive to help Africa's farms, *News*, Hoag, H, **422**, 246

African Institute for Mathematical Sciences (AIMS), African institute ready for meeting of mathematical minds, *News*, Clarke, T, **425**, 228

African Laser Centre, African states pledge increased spending on research, *News*, Cherry, M, **426**, 109

Afro-Arabia, Mammalian evolution: Isolationist tendencies, *News and views*, Jaeger, J-J, **426**, 509

Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549

afterglow, Structure in the early afterglow light curve of the γ-ray burst of 29 March 2003, *Letter to Nature*, Uemura, M, Kato, T, Ishioka, R, Yamaoka, H, Monard, B, Nogami, D, Maehara, H, Sugie, A, Takahashi, S, **423**, 843

The bright optical afterglow of the nearby γ-ray burst of 29 March 2003, *Letter to Nature*, Price, P A, Fox, D W, Kulkarni, S R, Peterson, B A, Schmidt, B P, Soderberg, A M, Yost, S A, Berger, E, Djorgovski, S G, Frail, D A, Harrison, F A, Sari, R, Blain, A W, Chapman, S C, **423**, 844

Evolution of the polarization of the optical afterglow of the γ-ray burst GRB030329, *Letter to Nature*, Greiner, J, Klose, S, Reinsch, K, Schmid, H M, Sari, R, Hartmann, D H, Kouveliotou, C, Rau, A, Palazzi, E, Straubmeier, C, Stecklum, B, Zharikov, S, Tovmassian, G, Barnbanter, O, Ries, C, Jehin, E, Henden, A, Kaas, A A, Grav, T, Hjorth, J, Pedersen, H, Wijers, R A M J, Kaufer, A, Park, H-S, Williams, G, Reimer, O, **426**, 157

aftershocks, Post-earthquake ground movements correlated to pore-pressure transients, *Letter to Nature*, Jónsson, S, Segall, P, Pedersen, R, Björnsson, G, **424**, 179

age and ageing, Physiology: Cost-free longevity in mice, *News and views*, Lithgow, G J, Gill, M S, **421**, 125

Telomere dysfunction and Atm deficiency compromises organ homeostasis and accelerates ageing, *Letter to Nature*, Wong, K-K, Maser, R S, Bachoo, R M, Menon, J, Carrasco, D R, Gu, Y, Alt, F W, DePinho, R A, **421**, 643

Hints of age bias spur calls for grant reforms, *News*, Cyranoski, D, Kandachi, K, **421**, 680

Ageless Quest: One Scientist's Search for Genes That Prolong Youth, Guarente, L, *Book review by* Partridge, L, **421**, 789

Recurrent *de novo* point mutations in lamin A cause Hutchinson–Gilford progeria syndrome, *Letter to Nature*, Eriksson, M, Brown, W T, Gordon, L B, Glynn, M W, Singer, J, Scott, L, Erdos, M R, Robbins, C M, Moses, T Y, Berglund, P, Dutra, A, Pak, E, Durkin, S, Csoka, A B, Boehnke, M, Glover, T W, Collins, F S, **423**, 293

  - A progeroid syndrome in mice is caused by defects in A-type lamins, *Letter to Nature*, Mounkes, L C, Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L, **423**, 298
  - DNA helicase Srs2 disrupts the Rad51 presynaptic filament, *Letter to Nature*, Krejci, L, Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P, **423**, 305
  - The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments, *Letter to Nature*, Veaute, X, Jeusset, J, Soustelle, C, Kowalczykowski, S C, Le Cam, E, Fabre, F, **423**, 309
  - Ageing: Microarraying mortality, *News and views*, Gems, D, McElwee, J J, **424**, 259
  - Genes that act downstream of DAF-16 to influence the lifespan of *Caenorhabditis elegans*, *Article*, Murphy, C T, McCarroll, S A, Bargmann, C I, Fraser, A, Kamath, R S, Ahringer, J, Li, H, Kenyon, C, **424**, 277
  - Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration, *Letter to Nature*, Liou, Y-C, Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P, **424**, 556
  - Ageing: A toast to long life, *News and views*, Finkel, T, **425**, 132
  - Small molecule activators of sirtuins extend *Saccharomyces cerevisiae* lifespan, *Letter to Nature*, Howitz, K T, Bitterman, K J, Cohen, H Y, Lamming, D W, Lavu, S, Wood, J G, Zipkin, R E, Chung, P, Kisielewski, A, Zhang, L-L, Scherer, B, Sinclair, D A, **425**, 191
  - Restless nights, listless days, *News feature*, Abbott, A, **425**, 896
  - Medical technology: Balancing the unbalanced, *News and views*, Moss, F, Milton, J G, **425**, 911
  - A magnificent seven, *News and views*, Lincoln, T, **426**, 773
  - Neurobiology: Amnesia in ageing flies, *News and views*, Heemels, M-T, **426**, 784
- **Agent Blue**, The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
- **Agent Green**, The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
- **Agent Orange**, Flight records reveal full extent of Agent Orange contamination, *News*, Butler, D, **422**, 649
  - The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
  - Agent Orange health investigation stuck at square one, *News*, Butler, D, **422**, 793
- **Agent Pink**, Flight records reveal full extent of Agent Orange contamination, *News*, Butler, D, **422**, 649
  - The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
- **Agent Purple**, Flight records reveal full extent of Agent Orange contamination, *News*, Butler, D, **422**, 649
  - The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
- **Agent White**, The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
- **aggression**, The effect of aggressiveness on the population dynamics of a territorial bird, *Letter to Nature*, Mougeot, F, Redpath, S M, Leckie, F, Hudson, P J, **421**, 737
  - A calm view of video violence, *Opinion*, **424**, 355
  - Playing with fire?, *News feature*, Reichhardt, T, **424**, 367
- **agnathan fish**, Head and backbone of the Early Cambrian vertebrate *Haikouichthys*, *Letter to Nature*, Shu, D-G, Conway Morris, S, Han, J, Zhang, Z-F, Yasui, K, Janvier, P, Chen, L, Zhang, X-L, Liu, J-N, Li, Y, Liu, H-Q, **421**, 526
- **Agre, Peter**, Channel hoppers land chemistry Nobel, *News*, Giles, J, **425**, 651
- **agriculture**, Agriculture shock, *News feature*, Gewin, V, **421**, 106
  - Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
  - Transgenic crop trial's gene flow turns weeds into wimps, *News*, Adam, D, **421**, 462
  - A dying breed, *News feature*, Knight, J, **421**, 568
  - Missing the big picture, *Editorial*, **421**, 675
  - Gene flow might turn wimps into superweeds, *Correspondence*, Muth, N, **421**, 785
  - Novel and conventional paths to a better banana, *Correspondence*, Jones, D, **421**, 889
  - A little protectionism goes a long way, *Opinion*, **422**, 99
  - Tougher rules aim to prevent gene flow into crops, *News*, Hoag, H, **422**, 103
  - Against the grain, *News feature*, Macilwain, C, **422**, 111
  - How to slake a planet's thirst, *Opinion*, **422**, 242
  - Biotech firms join charities in drive to help Africa's farms, *News*, Hoag, H, **422**, 246
  - Chicken flu races through Dutch poultry farms, *News*, Abbott, A, **422**, 247
  - The world's forgotten crisis, *News feature*, Aldhous, P, **422**, 251
  - 'Low risk' of infection from smuggled meat, *News in brief*, **422**, 366
  - Ecology: Is fertilization efficiency misleading?, *Brief communication*, Hafner, S D, **422**, 397
  - Reply: Ecology: Is fertilization efficiency misleading?, *Brief communication*, Tilman, D, Cassman, K G, Matson, P A, Naylor, R, Polasky, S, **422**, 398
  - Classical plant breeding is the route to food security, *Correspondence*, Thro, A M, Zankowski, P, **422**, 559
  - Control of tillering in rice, *Letter to Nature*, Li, X, Qian, Q, Fu, Z, Wang, Y, Xiong, G, Zeng, D, Wang, X, Liu, X, Teng, S, Hiroshi, F, Yuan, M, Luo, D, Han, B, Li, J, **422**, 618
  - A recipe revolution, *News feature*, Cyranoski, D, **422**, 796
  - Rice institute need strong support, *Opinion*, **423**, 1
  - Researchers rue hasty destruction of wheat, *News*, Dennis, C, **423**, 210
  - Trade war: what is it good for?, *Opinion*, **423**, 367
  - BSE case rattles Canadian officials, *News*, Hoag, H, **423**, 467
  - Prion diseases: BSE in sheep bred for resistance to infection, *Brief communication*, Houston, F, Goldmann, W, Chong, A, Jeffrey, M, Gonzalez, L, Foster, J, Parnham, D, Hunter, N, **423**, 498
  - Divisions sink US consensus effort on transgenic food, *News*, Knight, J, **423**, 574
  - Traditional wheat breeder fights for funding, *News*, Dalton, R, **423**, 790
  - A flight of fancy, *Opinion*, **423**, 903
  - Pest resistance feared as farmers flout rules, *News*, Clarke, T, **424**, 116
  - Don't believe the hype, *Opinion*, **424**, 237
  - Seed bank raises hope of Iraqi crop comeback, *News*, Clarke, T, **424**, 242
  - A little knowledge, *News feature*, Brumfiel, G, **424**, 246
  - Diversity in food technology, *Opinion*, **424**, 473
  - Anger grows over plan to uproot Indian crop institute, *News*, Jayaraman, K S, **424**, 477
  - Worldwide agricultural effort aims to help world's poor, *News in brief*, **424**, 606
  - Natural decaf could brew trouble for farmers, *Correspondence*, Baker, P S, **424**, 613
  - Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15
  - Global project needed to tackle coffee crisis, *Correspondence*, Vega, F E, Rosenquist, E, Collins, W, **425**, 343
  - Judge's sacking rocks Everglades clean-up, *News*, Mason, B, **425**, 551
  - New access for agriculture, *Opinion*, **425**, 749
  - Money pours in for work to boost crop yield in droughts, *News in brief*, **426**, 8
  - Crop freezes and land-use change in Florida, *Brief communication*, Marshall, C H, Pielke Sr, R A, Steyaert, L T, **426**, 29
  - George Beadle, and Uncommon Farmer: The Emergence of Genetics in the 20th Century, Berg, P, Singer, M, *Book review by* Müller-Hill, B, **426**, 122
- ***Agrobacterium tumefaciens***, RNA interference: Producing decaffeinated coffee plants, *Brief communication*, Ogita, S, Uefuji, H, Yamaguchi, Y, Koizumi, N, Sano, H, **423**, 823
  - Discovery changes view of bacteria, *News*, Knight, J, **423**, 909
- **agrobiotechnology**, Genes for Africa: Genetically Modified Crops in the Developing World, Thomson, J A, *Book review by* Conway, G, **421**, 478
  - Ministers back gene-crop advisers, *News*, Butler, D, **421**, 775
  - Poor farmers warned against Internet transgenic crop deals, *News*, Dalton, R, **421**, 776
  - Europe uproots patent for DuPont's oil-rich maize, *News in brief*, **421**, 778
  - Trade war looms as US launches challenge over transgenic crops, *News*, Knight, J, **423**, 369
  - Debate, what debate?, *Opinion*, **423**, 669
  - Public input sought on transgenic farming, *News*, Tilstone, C, **423**, 672
  - Flawed science underlies laws on transgenic crops, *Correspondence*, Sandermann Jr, H, **424**, 613
  - Consumers don't want GM, so why use it?, *Correspondence*, Melchett, P, **424**, 995
  - US reflects on flying eye for transgenic crops, *News*, Knight, J, **425**, 112
  - UK public opposes government on transgenic crops, *News*, Giles, J, **425**, 331
  - Don't worry (It's Safe to Eat). The True Story of GM Food, BSE and Foot and Mouth, Rowell, A, *Book review by* Woolhouse, M, **425**, 454
  - Time to choose, *News feature*, Aldhous, P, **425**, 655
  - Damned if they do, damned if they don't, *News feature*, Giles, J, **425**, 656
  - GM world view, *News feature*, **425**, 658
  - Biosafety trials darken outlook for transgenic crops in Europe, *News*, Giles, J, **425**, 751
  - US beefs up policing of transgenic crop trials, *News in brief*, **425**, 892
  - A continent divided, *News feature*, Masood, E, **426**, 224
  - Organic brewery ferments opposition to GM crops, *News in brief*, **426**, 488
  - GM-debate methodology works in the real world, *Correspondence*, Grove-White, R, **426**, 495
- **Agulhas system**, Oceanography: The brawniest retroflection, *News and views*, Gordon, A L, **421**, 904
- **AIDS**, AIDS scientist rapped over controversial treatment test, *News in brief*, **422**, 794
  - HIV: Lucky mutation, *News and views*, Pilcher, H R, **423**, 598
  - Combating AIDS: Communication Strategies in Action, Singhal, A, Rogers, E M, *Book review by* Priya, R, **423**, 685
  - Living with the AIDS Virus: The Epidemic and the Response in India, Panda, S, Chatterjee, A, Abdul-Quader, A S, *Book review by* Priya, R, **423**, 685
  - AIDS research cut to pay for anthrax vaccine, *News*, Check, E, **424**, 241
  - Medical journal under attack as dissenters seize AIDS platform, *News*, Butler, D, **426**, 215
  - Developing-world health: the fightback starts here, *News feature*, Butler, D, **426**, 754
- **AIDS, research**, Bush promises US cash for international battle against AIDS, *News in brief*, **421**, 566
- **AIDS, treatment**, Accrued HIV evidence turns treatment dogma on its head, *News*, Check, E, **424**, 866
- **AIDS, vaccine**, AIDS researchers seek criteria for vaccines, *News*, Check, E, **423**, 107
  - Back to 'plan A', *News feature*, Check, E, **423**, 912
  - 'Money down the drain' fears for AIDS vaccine trials, *News in brief*, **426**, 221
- **AIDSVAX**, Mixed results win HIV vaccine a guarded response, *News*, Hoag, H, **421**, 877
  - Back to 'plan A', *News feature*, Check, E, **423**, 912
  - 'Money down the drain' fears for AIDS vaccine trials, *News in brief*, **426**, 221
- **air**, Planetary science: The history of air, *News and views*, Melosh, H J, **424**, 22
- **airborne particles**, Atmospheric science: African dust in Florida clouds, *News and views*, Toon, O B, **424**, 623
- **aircraft**, Balloon adventurer seeks to broaden horizons, *News in brief*, **426**, 489
- **Alaska**, The coast road, *News feature*, Dalton, R, **422**, 10
  - Earth science: Stressed in Alaska, *News and views*, Lincoln, T, **422**, 572
  - Delivery of pollutants by spawning salmon, *Brief communication*, Krummel, E M, Macdonald, R W, Kimpe, L E, Gregory-Eaves, I, Demers, M J, Smol, J P, Finney, B, Blais, J M, **425**, 255
  - Too hot to handle, *News feature*, Whitfield, J, **425**, 338
  - Rapid body size decline in Alaskan Pleistocene horses before extinction, *Letter to Nature*, Guthrie, R D, **426**, 169
- **Albarède, Francis**, Solid foundations — Francis Albarède, *Lifelines*, **421**, 481
- **alchemy**, The Art of Chemistry: Myths, Medicines and Materials, Greenberg, A, *Book review by* Emsley, J, **421**, 790
- **alcohol**, Drinking your health? It's too early to say, *Correspondence*, Corder, R, Crozier, A, Kroon, P A, **426**, 119
- **alcohol dehydrogenase**, Cancer: The alcohol factor, *News and views*, Pilcher, H R, **424**, 31
- **algae**, Photosynthesis: A new function for an old cytochrome?, *Brief communication*, Molina-Heredia, F P, Wastl, J, Navarro, J A, Bendall, D S, Hervas, M, Howe, C J, De la Rosa, M A, **424**, 33
  - Rapid evolution drives ecological dynamics in a predator–prey system, *Letter to Nature*, Yoshida, T, Jones, L E, Ellner, S P, Fussmann, G F, Hairston Jr, N G, **424**, 303
  - Developmental biology: How to turn inside out, *News and views*, Schmitt, R, Sumper, M, **424**, 499
- **algal bloom**, Marine ecology: Spring algal bloom and larval fish survival, *Brief communication*, Platt, T, Fuentes-Yaco, C, Frank, K T, **423**, 398
  - Oceanography: Bloom in cyclone, *News and views*, Lincoln, T, **424**, 630
  - Fertilized to death, *News feature*, Nosengo, N, **425**, 894
- **Algeria**, Quake triggers research expedition, *News*, Butler, D, **423**, 673
- **alkylating agents**, Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA, *Letter to Nature*, Aas, P A, Otterlei, M, Falnes, P O, Vågbø, C B, Skorpen, F, Akbari, M, Sundheim, O, Bjørås, M, Slupphaug, G, Seeberg, E, Krokan, H E, **421**, 859
- **All European Academies**, Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217
- **alleles**, Behavioural genetics: Family matters, *News and views*, Haig, D, **421**, 491
  - Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers, *Letter to Nature*, Bradshaw, H D, Schemske, D, **426**, 176
- **Allen Brain Atlas**, Neuroscience: Genomics on the brain, *News feature*, Abbott, A, **426**, 757
- **allenes**, A stable silicon-based allene analogue with a formal *sp*-hybridized silicon atom, *Letter to Nature*, Ishida, S, Iwamoto, T, Kira, M, **421**, 725
- **allergy**, Kids' cartoon faces probe over drug tie-in deal, *News in brief*, **424**, 869
- **Alliance for Cellular Signaling**, Setback forces rethink for cell signalling alliance, *News in brief*, **423**, 472
- **allodynia**, P2X, receptors induced in spinal microglia gate tactile allodynia after nerve injury, *Letter to Nature*, Tsuda, M, Shigemoto-Mogami, Y, Koizumi, S, Mizokoshi, A, Kohsaka, S, Salter, M W, Inoue, K, **424**, 778
- **allometrics**, Physiology: Allometric cascades, *Brief communication*, Banavar, J R, Damuth, J, Martian, A, Rinaldo, A, **421**, 713
  - Physiology: Why does metabolic rate scale with body size, *Brief communication*, West, G B, Savage, V M, Gillooly, J, Enquist, B J, Woodruff, W H, Brown, J H, **421**, 713
  - Reply: Physiology: Allometric cascades, *Brief communication*, Darveau, C A, Suarez, R K, Andrews, R D, Hochachka, P W, **421**, 714
- **allometry**, Allometry: How reliable is the biological time clock?, *Brief communication*, Lopez-Urrutia, A, **424**, 269
  - Reply: Allometry: How reliable is the biological time clock?, *Brief communication*, Gillooly, J F, Charnov, E L, Brown, J H, Savage, V M, West, G B, **424**, 270
- **allopatric diversification**, Erratum: The role of parasites in sympatric and allopatric host diversification, *Letter to Nature*, Buckling, A, Rainey, P B, **421**, 294
- **allopatric speciation**, Evolutionary biology: Splitting in space, *News and views*, Tautz, D, **421**, 225
  - Speciation along environmental gradients, *Letter to Nature*, Doebeli, M, Dieckmann, U, **421**, 259
  - The evolution of reproductive isolation through sexual conflict, *Letter to Nature*, Martin, O Y, Hosken, D J, **423**, 979

- **allostasis**, Does Stress Damage the Brain? Understanding Trauma-related Disorders from a Mind-Body Perspective, Bremner, J D, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
  - The End Of Stress As We Know It, McEwen, B, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
- **alloys**, Metallurgy: Bend it, shape it, *News and views*, Ball, P, **422**, 829
  - Metallurgy: Cost and compromise in alloy engineering, *News and views*, Ball, P, **426**, 618
- **Alps**, Alpine thaw breaks ice over permafrost's role, *News*, Schiermeier, Q, **424**, 712
- **alternative energy sources**, Applied physics: Solar cells to dye for, *News and views*, Grätzel, M, **421**, 586
  - A photovoltaic device structure based on internal electron emission, *Letter to Nature*, McFarland, E W, Tang, J, **421**, 616
  - Experts cast doubt on Britain's green energy ambitions, *News*, McDowell, N, **421**, 879
  - Hydrogen lifts off — with a heavy load, *Commentary*, Grant, P M, **424**, 129
  - Integration of geoscience and engineering in the oil industry — just a dream?, *Insight commentary*, Stankiewicz, B A, **426**, 360
- **alternative fuels**, Hydrogen cars fuel debate on basic research, *News*, Brumfiel, G, **422**, 104
  - Hydrogen lifts off — with a heavy load, *Commentary*, Grant, P M, **424**, 129
- **altruism**, Sociology: The puzzle of human cooperation, *Brief communication*, Johnson, D D P, Stopka, P, Knights, S, **421**, 911
  - Reply: Sociology: The puzzle of human cooperation, *Brief communication*, Fehr, E, Gächter, S, **421**, 912
  - Behavioural science: Fair's fair, *News and views*, Bewley, T, **422**, 125
  - Detrimental effects of sanctions on human altruism, *Article*, Fehr, E, Rockenbach, B, **422**, 137
  - Avian behaviour: Altruism and infidelity among warblers, *Brief communication*, Richardson, D S, Komdeur, J, Burke, T, **422**, 580
  - The nature of human altruism, *Review article*, Fehr, E, Fischbacher, U, **425**, 785
- **Alzheimer's disease**, Battle of the mind, *News feature*, Check, E, **422**, 370
  - Neurobiology: Ballads of a protein quartet, *News and views*, Mattson, M P, **422**, 385
  - The role of presenilin cofactors in the γ-secretase complex, *Letter to Nature*, Takasugi, N, Tomita, T, Hayashi, I, Tsuruoka, M, Niimura, M, Takahashi, Y, Thinakaran, G, Iwatsubo, T, **422**, 438
  - Alzheimer's disease: Mental plaque removal, *News and views*, De Strooper, B, Woodgett, J, **423**, 392
  - GSK-3α regulates production of Alzheimer's disease amyloid-β peptides, *Letter to Nature*, Phiel, C J, Wilson, C A, Lee, V M-Y, Klein, P S, **423**, 435
  - Flame rekindled for Alzheimer's vaccine, *News in brief*, **423**, 472
  - Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration, *Letter to Nature*, Liou, Y-C, Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P, **424**, 556
  - Rationalization of the effects of mutations on peptide and protein aggregation rates, *Letter to Nature*, Chiti, F, Stefani, M, Taddei, N, Ramponi, G, Dobson, C M, **424**, 805
  - Double trouble for neurons, *News and views*, Fortini, M E, **425**, 565
  - Neurobiology: Alzheimer's enzyme target, *News and views*, Pearson, H, **425**, 678
  - Restless nights, listless days, *News feature*, Abbott, A, **425**, 896
  - Folding proteins in fatal ways, *Insight review article*, Selkoe, D J, **426**, 900
  - Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905
- **amateur scientists**, Amateur anglers cast as nature monitors, *News in brief*, **424**, 362
- **American Association for the Advancement of Science**, A meeting for Europe's scientists and publics, *Opinion*, **423**, 571
- **American Astronomical Society**, Young women astronomers are in the ascendant, *News in brief*, **424**, 8
- **American Chemical Society**, Chemists seek image overhaul, *News*, Pearson, H, **425**, 227
- **American Medical Association**, Medical association backs human cloning, *News in brief*, **423**, 911
- **American Physical Society**, Strict guidelines make it clear who's responsible, *Correspondence*, Sarachik, M P, **421**, 111
- **American Society of Clinical Oncology**, Cancer body gets tough on conflicts, *News in brief*, **423**, 108
- **Amerindians**, Craniometric evidence for Palaeoamerican survival in Baja California, *Letter to Nature*, González-José, R, González-Martin, A, Hernández, M, Pucciarelli, H M, Sardi, M, Rosales, A, Van der Molen, S, **425**, 62
- **amino acids**, Glycine binding primes NMDA receptor internalization, *Letter to Nature*, Nong, Y, Huang, Y-Q, Ju, W, Kalia, L V, Ahmadian, G, Wang, Y T, Salter, M W, **422**, 302
  - Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis, *Letter to Nature*, Lodwig, E M, Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S, **422**, 722
  - A cytoplasmic region determines single-channel conductance in 5-HT_3 receptors, *Letter to Nature*, Kelley, S P, Dunlop, J I, Kirkness, E F, Lambert, J J, Peters, J A, **424**, 321
- **Ammash, Huda Salih Mahdi**, Lack of trust hampers hunt for weapons, *News*, Butler, D, **423**, 371
- **amnesia**, Neurobiology: Amnesia in ageing flies, *News and views*, Heemels, M-T, **426**, 784
- **amniotes**, Palaeontology: A polydactylous amniote from the Triassic period, *Brief communication*, Wu, X-C, Li, Z, Zhou, B-C, Dong, Z-M, **426**, 516
- ***Amorphophallus titanum***, Record-breaking bloom kicks up a stink, *News in brief*, **423**, 472
- **AMPA receptors**, Extinction-induced upregulation in AMPA receptors reduces cocaine-seeking behaviour, *Letter to Nature*, Sutton, M A, Schmidt, E F, Choi, K-H, Schad, C A, Whisler, K, Simmons, D, Karanian, D A, Monteggia, L M, Neve, R L, Self, D W, **421**, 70
  - Induction of dendritic spines by an extracellular domain of AMPA receptor subunit GluR2, *Letter to Nature*, Passafaro, M, Nakagawa, T, Sala, C, Sheng, M, **424**, 677
- **amyloid**, Battle of the mind, *News feature*, Check, E, **422**, 370
  - Neurobiology: Ballads of a protein quartet, *News and views*, Mattson, M P, **422**, 385
  - Flame rekindled for Alzheimer's vaccine, *News in brief*, **423**, 472
  - Rationalization of the effects of mutations on peptide and protein aggregation rates, *Letter to Nature*, Chiti, F, Stefani, M, Taddei, N, Ramponi, G, Dobson, C M, **424**, 805
  - Generation of prion transmission barriers by mutational control of amyloid conformations, *Letter to Nature*, Chien, P, DePace, A H, Collins, S R, Weissman, J S, **424**, 948
  - Neurobiology: Alzheimer's enzyme target, *News and views*, Pearson, H, **425**, 678
- **amyloid fibrils**, A camelid antibody fragment inhibits the formation of amyloid fibrils by human lysozyme, *Letter to Nature*, Dumoulin, M, Last, A M, Desmyter, A, Decanniere, K, Canet, D, Larsson, G, Spencer, A, Archer, D B, Sasse, J, Muyldermans, S, Wyns, L, Redfield, C, Matagne, A, Robinson, C V, Dobson, C M, **424**, 783
- **amyloid precursor protein**, Neurobiology: Ballads of a protein quartet, *News and views*, Mattson, M P, **422**, 385
  - The role of presenilin cofactors in the γ-secretase complex, *Letter to Nature*, Takasugi, N, Tomita, T, Hayashi, I, Tsuruoka, M, Niimura, M, Takahashi, Y, Thinakaran, G, Iwatsubo, T, **422**, 438
  - Alzheimer's disease: Mental plaque removal, *News and views*, De Strooper, B, Woodgett, J, **423**, 392
  - GSK-3α regulates production of Alzheimer's disease amyloid-β peptides, *Letter to Nature*, Phiel, C J, Wilson, C A, Lee, V M-Y, Klein, P S, **423**, 435
  - Double trouble for neurons, *News and views*, Fortini, M E, **425**, 565
- **amyloidosis**, Quality control in the endoplasmic reticulum protein factory, *Insight progress*, Sitia, R, Braakman, I, **426**, 891
  - Folding proteins in fatal ways, *Insight review article*, Selkoe, D J, **426**, 900
  - Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905
- **amyotrophic lateral sclerosis**, Disease insights from stem cells, *Opinion*, **422**, 787
- **anabolic steroids**, Drugs bust reveals athletes' secret steroid, *News*, Knight, J, **425**, 752
- **anaerobic oxidation**, A conspicuous nickel protein in microbial mats that oxidize methane anaerobically, *Letter to Nature*, Kruger, M, Meyerdierks, A, Glockner, F O, Amann, R, Widdel, F, Kube, M, Reinhardt, R, Kahnt, J, Bocher, R, Thauer, R K, Shima, S, **426**, 878
- **analgesia**, Analgesia and hyperalgesia from GABA-mediated modulation of the cerebral cortex, *Letter to Nature*, Jasmin, L, Rabkin, S D, Granato, A, Boudah, A, Ohara, P T, **424**, 316
- **anammox reaction**, Nitrogen cycle: Solution to a marine mystery, *News and views*, Devol, A H, **422**, 575
  - N2 production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica, *Letter to Nature*, Dalsgaard, T, Canfield, D E, Petersen, J, Thamdrup, B, Acuña-González, J, **422**, 606
  - Anaerobic ammonium oxidation by anammox bacteria in the Black Sea, *Letter to Nature*, Kuypers, M M M, Sliekers, A O, Lavik, G, Schmid, M, Jorgensen, B B, Kuenen, J G, Sinninghe Damste, J S, Strous, M, Jetten, M S M, **422**, 608
- **anandamide**, Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels, *Letter to Nature*, Watanabe, H, Vriens, J, Prenen, J, Droogmans, G, Voets, T, Nilius, B, **424**, 434
- **anaplastic large-cell lymphoma protein**, Developmental biology: Partners united, *News and views*, Freeman, M, **425**, 468
- **Anatolian theory of language**, Language-tree divergence times support the Anatolian theory of Indo-European origin, *Letter to Nature*, Gray, R D, Atkinson, Q D, **426**, 435
- **anatomy**, Illustration: A fine body of work, *Book review*, Purton, M, **423**, 921
  - Vesalius's vessels, *Book review*, Purton, M, **424**, 373
- **ancestry**, A genetic melting pot, *Concepts*, Feldman, M W, Lewontin, R C, King, M C, **424**, 374
- **ancient buildings**, Minister knocked down by court verdict on mosque demolition, *News in brief*, **425**, 442
- **ancient materials**, Ancient materials: Analysis of a pharaonic embalming tar, *Brief communication*, Koller, J, Baumer, U, Kaup, Y, Scmid, M, Weser, U, **425**, 784
- **Andes**, Cenozoic climate change as a possible cause for the rise of the Andes, *Article*, Lamb, S, Davis, P, **425**, 792
- **Anest, V, Hanson, J L, Cogswell, P C, Steinbrecher, K A, Strahl, B D, Baldwin, A S**, ?A nucleosomal function for IκB kinase-α in NF-κB-dependent gene expression, *Letter to Nature*, **423**, 659
- **angiogenesis**, Cancer: Out of air is not out of action, *News and views*, Bottaro, D P, Liotta, L A, **423**, 593
  - Cardiovascular biology: Signalling silenced, *News and views*, Conway, E M, Carmeliet, P, **425**, 139
- **angiosperms**, Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events, *Letter to Nature*, Bowers, J E, Chapman, B A, Rong, J, Paterson, A H, **422**, 433
- **angiotensin-converting enzyme**, Crystal structure of the human angiotensin-converting enzyme-lisinopril complex, *Letter to Nature*, Natesh, R, Schwager, S L U, Sturrock, E D, Acharya, K R, **421**, 551
  - Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus, *Letter to Nature*, Li, W, Moore, M J, Vasilieva, N, Sui, J, Wong, S K, Berne, M A, Somasundaran, M, Sullivan, J L, Luzuriaga, K, Greenough, T C, Choe, H, Farzan, M, **426**, 450
- **angling**, Anglers face the painful truth, *News in brief*, **423**, 8
- **animal behaviour**, Group decision-making in animals, *Letter to Nature*, Conradt, L, Roper, T J, **421**, 155
  - Animal behaviour: How self-organization evolves, *News and views*, Visscher, P K, **421**, 799
  - Animal behaviour: Heredity and the bolder bird, *News and views*, Whitfield, J, **421**, 804
  - Animal behaviour: Homing is a breeze for sea turtles, *News and views*, Sims, D W, **423**, 128
  - Animal behaviour: A dog's dinner, *News and views*, Heemels, M-T, **423**, 134
  - Animal behaviour: Bowerbirds blues, *News and views*, Clarke, T, **424**, 507
- **animal experimentation**, Animal research needs organized defence, *Correspondence*, Smith, C G, **421**, 210
  - ...but activists force hotel to ditch meeting, *News in brief*, **422**, 250
  - Public starts to accept use of animal experiments..., *News in brief*, **422**, 250
  - Are China's bioethics under control?, *News*, Cyranoski, D, **424**, 239
  - China launches primate centre to broaden medical use of monkeys, *News*, Cyranoski, D, **424**, 239
  - Time runs short for opponents of chemical-testing rules, *News*, Murphy, G, **424**, 241
  - Pointless suffering of animals can be avoided, *Correspondence*, Barnard, N D, **425**, 661
  - UK primate centre gets the nod but faces cash shortfall, *News in brief*, **426**, 376
- **animal rights**, ...but activists force hotel to ditch meeting, *News in brief*, **422**, 250
  - UK shock tactics repel animal-rights activists in Japan, *News*, Cyranoski, D, **424**, 119
- **animal studies**, Animal studies hint at staying power of SARS, *News*, Pearson, H, **423**, 370
- **animal welfare**, Animal research needs organized defence, *Correspondence*, Smith, C G, **421**, 210
  - ...but activists force hotel to ditch meeting, *News in brief*, **422**, 250
  - Public starts to accept use of animal experiments..., *News in brief*, **422**, 250
  - Anglers face the painful truth, *News in brief*, **423**, 8
  - UK shock tactics repel animal-rights activists in Japan, *News*, Cyranoski, D, **424**, 119
  - Time runs short for opponents of chemical-testing rules, *News*, Murphy, G, **424**, 241
  - Pointless suffering of animals can be avoided, *Correspondence*, Barnard, N D, **425**, 661
- **anisotropy**, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123
  - Earth science: Mantle deformation or processing artefact?, *Brief communication*, Saul, J, Vinnik, L, **422**, 136
  - Reply: Earth science: Mantle deformation or processing artefact?, *Brief communication*, Wookey, J, Kendall, J-M, Barruol, G, **422**, 136
  - Global anisotropy and the thickness of continents, *Letter to Nature*, Gung, Y, Panning, M, Romanowicz, B, **422**, 707
  - Controlling anisotropic nanoparticle growth through plasmon excitation, *Letter to Nature*, Jin, R, Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A, **425**, 487
  - Boundary-layer mantle flow under the Dead Sea transform fault inferred from seismic anisotropy, *Letter to Nature*, Rumpker, G, Ryberg, T, Bock, G, Desert Seismology Group, **425**, 497
- **ankyrin-B protein**, Human genetics: Lost anchors cost lives, *News and views*, Nattel, S, **421**, 587
  - Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death, *Letter to Nature*, Mohler, P J, Schott, J-J, Gramolini, A O, Dilly, K W, Guatimosim, S, duBell, W H, Song, L-S, Haurogne, K, Kyndt, F, Ali, M E, Rogers, T B, Lederer, W J, Escande, D, Le Marec, H, Bennett, V, **421**, 634
- **annexin I**, Apoptosis: Dead cell talking, *News and views*, Heemels, M-T, **422**, 829
- **annulate lamellae**, RanGTP mediates nuclear pore complex assembly, *Letter to Nature*, Walther, T C, Askjaer, P, Gentzel, M, Habermann, A, Griffiths, G, Wilm, M, Mattaj, I W, Hetzer, M, **424**, 689
- ***Anopheles gambiae***, Malaria — there could be a third way, *Correspondence*, Miles, M A, **421**, 13
- **anoxia**, Evidence for low sulphate and anoxia in a mid-Proterozoic marine basin, *Letter to Nature*, Shen, Y, Knoll, A H, Walter, M R, **423**, 632
  - Cytosolic pH regulates root water transport during anoxic stress through gating of aquaporins, *Letter to Nature*, Tournaire-Roux, C, Sutka, M, Javot, H, Gout, E, Gerbeau, P, Luu, D-T, Bligny, R, Maurel, C, **425**, 393
- **Antarctic Circumpolar Current**, Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO_2, *Letter to Nature*, DeConto, R M, Pollard, D, **421**, 245
  - The current climate, *Concepts*, Rahmstorf, S, **421**, 699
- **Antarctic ice sheet**, Palaeoclimatology: Cooling a continent, *News and views*, Barrett, P, **421**, 221
  - Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO_2, *Letter to Nature*, DeConto, R M, Pollard, D, **421**, 245
- **Antarctic region**, Russia pulls out of Antarctic station, *News*, MacWilliams, B, **422**, 104

Homogeneous climate variability across East Antarctica over the past three glacial cycles, *Letter to Nature*, Watanabe, O, Jouzel, J, Johnsen, S, Parrenin, F, Shoji, H, Yoshida, N, **422**, 509
A fly in the biogeographic ointment, *Brief communication*, Ashworth, A C, Thompson, F C, **423**, 135
Antarctic data reveal hole truth about ozone, *News in brief*, **425**, 114
Antarctic research frozen out of Japan's budget plans, *News*, Kandachi, K, **426**, 108
antelopes, Conservation: Reproductive collapse in saiga antelope harems, *Brief communication*, Milner-Gulland, E J, Bukreeva, O M, Coulson, T, Lushchekina, A A, Kholodova, M V, Bekenov, A B, Grachev, I A, **422**, 135
anterior cingulate cortex, Brain region linked to post-terror stress, *News*, Cyranoski, D, **424**, 360
anterior–posterior axis, A role for *Drosophila* LKB1 in anterior-posterior axis formation and epithelial polarity, *Letter to Nature*, Martin, S G, St Johnston, D, **421**, 379
anthrax, Law sends laboratories into pathogen panic, *News*, Check, E, **421**, 4
Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
The genome sequence of *Bacillus anthracis* Ames and comparison to closely relates bacteria, *Letter to Nature*, Read, T D, Peterson, S N, Tourasse, N, Baillie, L W, Paulsen, I T, Nelson, K E, Tettelin, H, Fouts, D E, Eisen, J A, Gill, S R, Holtzapple, E K, Okstad, O A, Helgason, E, Rilstone, J, Wu, M, Kolonay, J F, Beanan, M J, Dodson, R J, Binkac, L M, Gwinn, M, DeBoy, R T, Madpu, R, Daugherty, S C, Durkin, A S, Haft, D H, Nelson, W C, Peterson, J D, Pop, M, Khouri, H M, Radune, D, Benton, J L, Mahamoud, Y, Jiang, L, Hance, I R, Weldman, J F, Berry, K J, Plaut, R D, Wolf, A M, Watkins, K L, Nierman, W C, Hazen, A, Cline, R, Redmond, C, Thwaite, J E, White, O, Salzberg, S L, Thomason, B, Friedlander, A M, Koehler, T M, Hanna, P C, Kolsto, A-B, Fraser, C M, **423**, 81
AIDS research cut to pay for anthrax vaccine, *News*, Check, E, **424**, 241
Impairment of dendritic cells and adaptive immunity by anthrax lethal toxin, *Letter to Nature*, Agrawal, A, Lingappa, J, Leppla, S H, Agrawal, S, Jabbar, A, Quinn, C, Pulendran, B, **424**, 329
Boom, or bust?, *News feature*, Check, E, **426**, 598
Anthropocene era, Welcome to the Anthropocene, *Opinion*, **424**, 709
anthropology, Court rules in favour of research on Kennewick Man, *News in brief*, **421**, 202
Reflections on our Past: How Human History is Revealed in Our Genes, Relethford, J H, *Book review by* Cann, R, **423**, 117
The Journey of Man: A Genetic Odyssey, Wells, S, *Book review by* Cann, R, **423**, 117
Museums face prospect of giving up human remains, *News in brief*, **423**, 374
Anthropologists cast doubt on human DNA evidence, *News*, Abbott, A, **423**, 468
Were Cro-Magnons too like us for DNA to tell?, *Correspondence*, Barbujani, G, Bertorelle, G, **424**, 127
Tracking the first Americans, *News and views*, Dillehay, T D, **425**, 23
antibiotics, On the trail of better treatment, *News*, Check, E, **422**, 245
Studies assess risks of drugs in water cycle, *News*, Schiermeier, Q, **424**, 5
Antibiotics: Actions, Origins, Resistance, Walsh, C, *Book review by* Cole, S T, **424**, 491
Drug companies snub antibiotics as pipeline threatens to run dry, *News*, Clarke, T, **425**, 225
antibiotics, resistance, Microbiology: Aspirin bites at bugs, *News and views*, Pearson, H, **424**, 507
A genetic basis for *Pseudomonas aeruginosa* biofilm antibiotic resistance, *Letter to Nature*, Mah, T-F, Pitts, B, Pellock, B, Walker, G C, Stewart, P S, O'Toole, G A, **426**, 306
Europe launches attack on bacterial resistance, *News in brief*, **426**, 488
antibiotics, side-effects, Hearing: Spin the chicken, *News and views*, Pilcher, H R, **424**, 385
antibodies, Feature: The double helix and immunology, *Feature*, Nossal, G J V, **421**, 440
Immunology: Geared up for antibody production, *News and views*, Heemels, M-T, **422**, 33
Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **422**, 307
Erratum: Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **423**, 197
Back to 'plan A', *News feature*, Check, E, **423**, 912
A camelid antibody fragment inhibits the formation of amyloid fibrils by human lysozyme, *Letter to Nature*, Dumoulin, M, Last, A M, Desmyter, A, Decanniere, K, Canet, D, Larsson, G, Spencer, A, Archer, D B, Sasse, J, Muyldermans, S, Wyns, L, Redfield, C, Matagne, A, Robinson, C V, Dobson, C M, **424**, 783
Specific cytotoxic T cells eliminate cells producing neutralizing antibodies, *Letter to Nature*, Planz, O, Seiler, P, Hengartner, H, Zinkernagel, R M, **426**, 474
antidepressants, British panel bans use of antidepressant to treat children, *News*, Abbott, A, **423**, 792
antiferromagnetism, No mixing of superconductivity and antiferromagnetism in a high-temperature superconductor, *Letter to Nature*, Bozovic, I, Logvenov, G, Verhoeven, M A J, Caputo, P, Goldobin, E, Geballe, T H, **422**, 873
Antiferromagnetic order as the competing ground state in electron-doped $Nd_{1.85}Ce_{0.15}CuO_4$, *Letter to Nature*, Kang, H J, Dai, P, Lynn, J W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y, **423**, 522
antifreeze proteins, Atlantic cod meet icy death, *News*, Hoag, H, **422**, 792
antigen cross-presentation, Phagosomes are competent organelles for antigen cross-presentation, *Letter to Nature*, Houde, M, Bertholet, S, Gagnon, E, Brunet, S, Goyette, G, Laplante, A, Princiotta, M F, Thibault, P, Sacks, D, Desjardins, M, **425**, 402
antigen-presenting cells, Professional secrets, *News and views*, Roy, C R, **425**, 351
antimatter, Antimatter matters, *News and views feature*, Ellis, J, **424**, 631
Antinori, Severino, Antinori makes a meal of hunger-strike claim, *News in brief*, **421**, 466
antioxidants, Essential role for the peroxiredoxin Prdx1 in erythrocyte antioxidant defence and tumour suppression, *Letter to Nature*, Neumann, C A, Krause, D S, Carman, C V, Das, S, Dubey, D P, Abraham, J L, Bronson, R T, Fujiwara, Y, Orkin, S H, Van Etten, R A, **424**, 561
Plasma antioxidants from chocolate, *Brief communication*, Serafini, M, Bugianesi, R, Maiani, G, Valtuena, S, De Santis, S, Crozier, A, **424**, 1013
Plasma antioxidants: Health benefits of eating chocolate?, *Brief communication*, Halliwell, B, **426**, 787
antivirals, On the trail of better treatment, *News*, Check, E, **422**, 245
Critics slam treatment for SARS as ineffective and perhaps dangerous, *News*, Cyranoski, D, **423**, 4
Human fatality adds fresh impetus to fight against bird flu, *News*, Abbott, A, **423**, 5
Corrigendum: Short interfering RNA confers intracellular antiviral immunity in human cells, *Letter to Nature*, Gitlin, L, Karelsky, S, Andino, R, **423**, 197
Integration of interferon-α/β signalling to p53 responses in tumour suppression and antiviral defence, *Article*, Takaoka, A, Hayakawa, S, Yanai, H, Stoiber, D, Negishi, H, Kikuchi, H, Sasaki, S, Imai, K, Shibue, T, Honda, K, Taniguchi, T, **424**, 516
antlers, Behavioural ecology: Horns and lifestyle, *News and views*, Whitfield, J, **425**, 253
ants, Sociobiology: Worker nepotism among polygynous ants, *Brief communication*, Hannonen, M, Sundstrom, L, **421**, 910
Social insects: Cuticular hydrocarbons inform task decisions, *Brief communication*, Greene, M J, Gordon, D M, **423**, 32
Corrigendum: Fungus-growing ants use antibiotic-producing bacteria to control garden parasites, *Letter to Nature*, Currie, C R, Scott, J A, Summerbell, R C, Malloch, D, **423**, 461
Ants join online colony to boost conservation efforts, *News*, Dalton, R, **424**, 242
Complex hybrid origin of genetic caste determination in harvester ants, *Letter to Nature*, Helms Cahan, S, Keller, L, **424**, 306
Pheidole in the New World: A Dominant, Hyperdiverse Ant Genus, Wilson, E O, *Book review by* Agosti, D, **424**, 727
Ant book deepens divide over web publishing, *News*, Dalton, R, **424**, 985
AntWeb, Ants join online colony to boost conservation efforts, *News*, Dalton, R, **424**, 242
apes, A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61
Catastrophic ape decline in western equatorial Africa, *Letter to Nature*, Walsh, P D, Abernethy, K A, Bermejo, M, Beyers, R, De Wachter, P, Ella Akou, M, Huijbregts, B, Idiata Mambounga, D, Kamdem Toham, A, Kilbourn, A M, Lahm, S A, Latour, S, Maisels, F, Mbina, C, Mihindou, Y, Ndong Obiang, S, Ntsame Effa, E, Starkey, M P, Telfer, P, Thibault, M, Tutin, C E G, White, L J T, Wilkie, D S, **422**, 611
Abundant gene conversion between arms of palindromes in human and ape Y chromosomes, *Letter to Nature*, Rozen, S, Skaletsky, H, Marszalek, J D, Minx, P J, Cordum, H S, Waterston, R H, Wilson, R K, Page, D C, **423**, 873
Eating Apes, Peterson, D, *Book review by* owlishaw, G, **424**, 131
Intelligence of Apes and Other Rational Beings, Rumbaugh, D M, Washburn, D A, *Book review by* Whiten, A, **425**, 454
Gorilla count resumes as tensions ease in central African forests, *News in brief*, **425**, 652
Primatologists rocks Gibraltar by quitting over macaque cull, *News*, Schiermeier, Q, **426**, 111
Facing up to endangered apes, *Opinion*, **426**, 369
apes, chromosomes, Abundant gene conversion between arms of palindromes in human and ape Y chromosomes, *Letter to Nature*, Rozen, S, Skaletsky, H, Marszalek, J D, Minx, P J, Cordum, H S, Waterston, R H, Wilson, R K, Page, D C, **423**, 873
***APL* gene**, APL regulates vascular tissue identity in *Arabidopsis*, *Letter to Nature*, Bonke, M, Thitamadee, S, Mahonen, A P, Hauser, M-T, Helariutta, Y, **426**, 181
APOBEC3G, Good to CU, *News and views*, Gu, Y, Sundquist, W I, **424**, 21
Broad antiretroviral defence by human APOBEC3G through lethal editing of nascent reverse transcripts, *Letter to Nature*, Mangeat, B, Turelli, P, Caron, G, Friedli, M, Perrin, L, Trono, D, **424**, 99
apolipoprotein L-I, Apolipoprotein L-I is the trypanosome lytic factor of human serum, *Letter to Nature*, Vanhamme, L, Paturiaux-Hanocq, F, Poelvoorde, P, Nolan, D P, Lins, L, Van Den Abbeele, J, Pays, A, Tebabi, P, Van Xong, H, Jacquet, A, Moguilevsky, N, Dieu, M, Kane, J P, De Baetselier, P, Brasseur, R, Pays, E, **422**, 83
apolipoproteins, Ectopic β-chain of ATP synthase is an apolipoprotein A-I receptor in hepatic HDL endocytosis, *Letter to Nature*, Martinez, L O, Jacquet, S, Esteve, J-P, Rolland, C, Cabezon, E, Champagne, E, Pineau, T, Georgeaud, V, Walker, J E, Terce, F, Collet, X, Perret, B, Barbaras, R, **421**, 75
Apoptosis: Dead cell talking, *News and views*, Heemels, M-T, phosphatidylserine, **422**, 829
apoptosis, Feature: DNA damage and repair, *Feature*, Friedberg, E C, **421**, 436
Cell biology: Double trouble with mutant p53, *News and views*, Heemels, M-T, **421**, 709
PAC1 phosphatase is a transcription target of p53 in signalling apoptosis and growth suppression, *Letter to Nature*, Yin, Y, Liu, Y-X, Jin, Y J, Hall, E J, Barrett, J C, **422**, 527
Apoptosis: Dead cell talking, *News and views*, Heemels, M-T, **422**, 829
Genetics: Suicidal mushroom cells, *News and views*, Money, N P, **423**, 26
Dying cells dragged screaming under the microscope, *News*, Zandonella, C, **423**, 106
Humanin peptide suppresses apoptosis by interfering with Bax activation, *Letter to Nature*, Guo, B, Zhai, D, Cabezas, E, Welsh, K, Nouraini, S, Satterthwait, A C, Reed, J C, **423**, 456
Loss of the cylindromatosis tumour suppressor inhibits apoptosis by activating NF-κB, *Letter to Nature*, Brummelkamp, T R, Nijman, S M B, Dirac, A M G, Bernards, R, **424**, 797
Cell biology: Metabolism meets death, *News and views*, Downward, J, **424**, 896
BAD and glucokinase reside in a mitochondrial complex that integrates glycolysis and apoptosis, *Letter to Nature*, Danial, N N, Gramm, C F, Scorrano, L, Zhang, C-Y, Krauss, S, Ranger, A M, Datta, S R, Greenberg, M E, Licklider, L J, Lowell, B B, Gygi, S P, Korsmeyer, S J, **424**, 952
Suppression of CED-3-independent apoptosis by mitochondrial βNAC in *Caenorhabditis elegans*, *Letter to Nature*, Bloss, T A, Witze, E S, Rothman, J H, **424**, 1066
Cell biology: The hippo hypothesis, *News and views*, Rothenberg, M E, Jan, Y-N, **425**, 469
Molecular identification of a danger signal that alerts the immune system to dying cells, *Letter to Nature*, Shi, Y, Evans, J E, Rock, K L, **425**, 516
Development and maintenance of B and T lymphocytes requires antiapoptotic MCL-1, *Letter to Nature*, Opferman, J T, Letal, A, Beard, C, Sorcinelli, M D, Ong, C C, Korsmeyer, S J, **426**, 671
Applied Biosystems, Applied Biosystems blames staff layoff on lack of demand, *News in brief*, **421**, 103
Companies vie to put all your genes on a chip, *News*, Dennis, C, **424**, 605
applied physics, Applied physics: Solar cells to dye for, *News and views*, Grätzel, M, **421**, 586
Applied physics: Son et lumière, *News and views*, Worlock, J M, Roukes, M L, **421**, 802
Retraction: Efficient organic photovoltaic diodes based on doped pentacene, *Letter to Nature*, Schön, J H, Kloc, Ch, Bucher, E, Batlogg, B, **422**, 93
Retraction: Superconductivity in molecular crystals induced by charge injection, *Letter to Nature*, Schön, J H, Kloc, Ch, Batlogg, B, **422**, 93
Applied physics: Spintronics gets a magnetic flute, *News and views*, Sun, J, **425**, 359
Applied physics: To catch a photon, *News and views*, Prober, D E, **425**, 777
appointments, Academics are teachers and colleagues too, *Correspondence*, Greif, K F, **421**, 13
Radio telescope plan gets inaugural chief, *News in brief*, **421**, 103
Mozambique prime minister tipped for global health post, *News*, Butler, D, **421**, 302
UK cell biologist takes pole position at Rockefeller, *News*, Check, E, **421**, 461
TB medic wins global health post, *News*, Butler, D, **421**, 463
London medic makes short trip to head Wellcome Trust, *News in brief*, **421**, 567
Arizona institute names leader, *News*, Dalton, R, **423**, 6
Physicist takes the reins at Santa Fe complexity centre, *News*, Brumfiel, G, **423**, 105
Mathematics institute appoints new number one, *News in brief*, **423**, 108
Medical council pins hopes on public advocate of science, *News*, Giles, J, **423**, 211
Discontent grows as cancer institute remains rudderless, *News in brief*, **423**, 214
Parapsychology post set up for long-dead benefactor, *News in brief*, **423**, 214
Fraud-buster to be university president, *News in brief*, **423**, 794
Molecular medic to lead cancer research giant, *News in brief*, **423**, 794
All change at the top for French research, *News in brief*, **424**, 606
US neuroscience institute fills directorship at last, *News in brief*, **424**, 716
Biophysicist named to run basic-research arm of NIH, *News*, Check, E, **424**, 984
Second astronaut given NASA's top science job, *News in brief*, **425**, 115
Flight veteran embraces NASA's science wing, *News*, Reichhardt, T, **425**, 229
Planck makes permanent posts, *News*, Schiermeier, Q, **425**, 441
Apteronotus leptorhynchus, Addendum: Non-classical receptive field mediates switch in a sensory neuron's frequency tuning, *Let-*

ter to Nature, Chacron, M J, Doiron, B, Maler, L, Longtin, A, Bastian, J, **423**, 1018
aquaculture, Eat your veg, *News feature*, Powell, K, **426**, 378
aquaporins, Plant biology: Water gate, *News and views*, Holbrook, N M, Zwieniecki, M A, **425**, 361
  Cytosolic pH regulates root water transport during anoxic stress through gating of aquaporins, *Letter to Nature*, Tournaire-Roux, C, Sutka, M, Javot, H, Gout, E, Gerbeau, P, Luu, D-T, Bligny, R, Maurel, C, **425**, 393
  The tobacco aquaporin NtAQP1 is a membrane CO_2 pore with physiological functions, *Letter to Nature*, Uehlein, N, Lovisolo, C, Siefritz, F, Kadenhoff, R, **425**, 734
aquatic ecosystems, Architecture and material properties of diatom shells provide effective mechanical protection, *Letter to Nature*, Hamm, C E, Merkel, R, Springer, O, Jurkojc, P, Maier, C, Prechtel, K, Smetacek, V, **421**, 841
aquatic species, Evolution: Aquatic life and the larger male, *News and views*, Whitfield, J, **421**, 597
aquatic systems, Self-organization of dissolved organic matter to micelle-like microparticles in river water, *Letter to Nature*, Kerner, M, Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A, **422**, 150
aquatic systems, photonic structures, Photonics structures in biology, *Insight review article*, Vukusic, P, Sambles, J R, **424**, 852
aquifers, Geochemical evidence for efficient aquifer isolation over geological timeframes, *Letter to Nature*, Marty, B, Dewonck, S, France-Lanord, C, **425**, 55
aquitards, Geochemical evidence for efficient aquifer isolation over geological timeframes, *Letter to Nature*, Marty, B, Dewonck, S, France-Lanord, C, **425**, 55
Arab countries, Building bridges, *Opinion*, **423**, 903
  European deal aims to attract Arab scientists, *News*, Nosengo, N, **423**, 906
Arabidopsis, Auxin promotes *Arabidopsis* root growth by modulating gibberellin response, *Letter to Nature*, Fu, X, Harberd, N P, **421**, 740
  It's all relative, *News and views*, Kellogg, E A, **422**, 383
  Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events, *Letter to Nature*, Bowers, J E, Chapman, B A, Rong, J, Paterson, A H, **422**, 433
  Reactive oxygen species produced by NADPH oxidase regulate plant cell growth, *Letter to Nature*, Foreman, J, Demidchik, V, Bothwell, J H F, Myiona, P, Miedema, H, Torres, M A, Linstead, P, Costa, S, Brownlee, C, Jones, J D G, Davies, J M, Dolan, L, **422**, 442
  Plant biology: Ice on top, *News and views*, Hemmels, M-T, **422**, 677
  Adaptation of photoperiodic control pathways produces short-day flowering in rice, *Letter to Nature*, Hayama, R, Yokoi, S, Tamaki, S, Yano, M, Shimamoto, K, **422**, 719
  Fitness costs of R-gene-mediated resistance in *Arabidopsis thaliana*, *Letter to Nature*, Tian, D, Traw, M B, Chen, J Q, Kretman, M, Bergelson, J, **423**, 74
  Sphingolipid signalling in *Arabidopsis* guard cells involves heterotrimeric G proteins, *Letter to Nature*, Coursol, S, Fan, L-M, Le Stunff, H, Spiegel, S, Gilroy, S, Assmann, S M, **423**, 651
  Plant biology: Growing pains, *News and views*, Heemels, M-T, **423**, 820
  Regulation of flowering time by light quality, *Letter to Nature*, Cerdán, P D, Chory, J, **423**, 881
  Photosynthesis: A new function for an old cytochrome?, *Brief communication*, Molina-Heredia, F P, Wastl, J, Navarro, J A, Bendall, D S, Hervas, M, Howe, C J, De la Rosa, M A, **424**, 33
  A cell surface receptor mediates extracellular Ca^{2+} sensing in guard cells, *Letter to Nature*, Han, S, Tang, R, Anderson, L K, Woerner, T E, Pei, Z-M, **425**, 196
  SNARE-protein-mediated disease resistance at the plant cell wall, *Letter to Nature*, Collins, N C, Thordal-Christensen, H, Lipka, V, Bau, S, Kombrink, E, Qiu, J-L, Hückelhoven, R, Stein, M, Freialdenhoven, A, Somerville, S C, Schulze-Lefert, P, **425**, 973
  Plant development: An axis of auxin, *News and views*, Kepinski, S, Leyser, O, **426**, 132
  Efflux-dependent auxin gradients establish the apical-basal axis of *Arabidopsis*, *Article*, Friml, J, Vieten, A, Sauer, M, Weijers, D, Schwarz, H, Hamann, T, Offringa, R, Jürgens, G, **426**, 147
  APL regulates vascular tissue identity in *Arabidopsis*, *Letter to Nature*, Bonke, M, Thitamadee, S, Mahonen, A P, Hauser, M-T, Helariutta, Y, **426**, 181
  FKF1 is essential for photoperiodic-specific light signalling in *Arabidopsis*, *Letter to Nature*, Imaizumi, T, Tran, H G, Swartz, T E, Briggs, W R, Kay, S A, **426**, 302
  Targeted degradation of TOC1 by ZTL modulates circadian function in *Arabidopsis thaliana*, *Letter to Nature*, MP, Kim, W-Y, Somers, D E, Kay, S A, **426**, 567
arachidonic acid, Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels, *Letter to Nature*, Watanabe, H, Vriens, J, Prenen, J, Droogmans, G, Voets, T, Nilius, B, **424**, 434
arachnology, Arachnology: Scavenging by brown recluse spiders, *Brief communication*, Sandidge, J S, **426**, 30
ARC1 protein, Sex and self-denial, *News and views*, Newbigin, E, Vierstra, R D, **423**, 229
Archaea, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley, S F, Buhre, S, Jacob, D E, **421**, 249
  ^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **423**, 428
  Archaean ultra-depleted komatiites formed by hydrous melting of cratonic mantle, *Letter to Nature*, Wilson, A H, Shirey, S B, Carlson, R W, **423**, 858
  Corrigendum: ^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **424**, 974
  Inferring the palaeoenvironment of ancient bacteria on the basis of resurrected proteins, *Letter to Nature*, Gaucher, E A, Thomson, J M, Burgan, M F, Benner, S A, **425**, 285
  Growth of early continental crust by partial melting of eclogite, *Letter to Nature*, Rapp, R P, Shimizu, N, Norman, M D, **425**, 605
Archaean mantle, Whole-mantle convection and the transition zone water filter, *Hypothesis*, Bercovici, D, Karato, S-I, **425**, 39
archaebacteria, Functional analysis of an archaebacterial voltage dependent K^+ channel, *Letter to Nature*, Ruta, V, Jiang, Y, Lee, A, Chen, J, MacKinnon, R, **422**, 180
archaeology, Heavy fine for light-fingered archaeologist, *News in brief*, **421**, 103
  The coast road, *News feature*, Dalton, R, **422**, 10
  Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution, Shennan, S, *Book review by* Bettinger, R L, **422**, 20
  Puzzling out the past, *Concepts*, Hedges, R, **422**, 667
  Archaeology: Tall story, *News and views*, Ball, P, **422**, 677
  Historians pool resources to halt trade in Iraq's stolen treasures, *News*, Hoag, H, **422**, 789
  Massive cathedral testifies to ancient emperor's might, *News in brief*, **423**, 676
  Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic, *Letter to Nature*, Barkai, R, Gopher, A, Lauritzen, S E, Frumkin, A, **423**, 977
  Museum trustees quit after row over sale of artefacts, *News*, Dalton, R, **424**, 360
  Dangers of privatization, *Opinion*, **424**, 473
  US researchers fear job losses from privatization drive, *News*, Dalton, R, **424**, 478
  Portrait of the Artist as a Child: The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context, Zilhao, J, Trinkaus, E, *Book review by* Bahn, P, **424**, 490
  Archaeology: Propaganda of the pyramids, *News and views*, Diamond, J, **424**, 891
  Archaeology: The dating game, *News and views*, Lincoln, T, **424**, 898
  Lion man takes pride of place as oldest statue, *News*, Dalton, R, **425**, 7
  Radiometric dating of the Siloam Tunnel, Jerusalem, *Letter to Nature*, Frumkin, A, Shimron, A, Rosenbaum, J, **425**, 169
  Nuclear DNA sequences detect species limits in ancient moa, *Letter to Nature*, Huynen, L, Millar, C D, Scofield, R P, Lambert, D M, **425**, 175
  Archaeology: Sharp shift in diet at onset of Neolithic, *Brief communication*, Richards, M P, Schulting, R J, Hedges, R E M, **425**, 366
  After the Ice: A Global Human History 20,000–5000 BC, Mithen, S, *Book review by* Bettinger, R, **425**, 453
  University buildings named on shaky ground, *News*, Dalton, R, **426**, 374
  Archaeology: Art of the ancient, *News and views*, Sinclair, A, **426**, 774
  Palaeolithic ivory sculptures from southwestern Germany and the origins of figurative art, *Letter to Nature*, Conard, N J, **426**, 830
architecture, London's gherkin, *Science in culture*, Hopkin, M, **422**, 22
  Do you want to work here?, *News feature*, Bonetta, L, **424**, 718
  Art: Seeing the light, *Book review*, Cyranoski, D, **424**, 726
  Building on nature, *Exhibition review*, Forbes, P, **425**, 241
archives, Court studies biology papers in row over title, *News in brief*, **423**, 578
  Bone archives face prospect of dispersal, *News*, Giles, J, **426**, 109
Arctic National Wildlife Refuge, Senator rebuffs academy over Arctic oil, *News*, Reichhardt, T, **422**, 103
  US senate upholds ban on oil drilling in wildlife refuge, *News in brief*, **422**, 366
Arctic Ocean, Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean, *Letter to Nature*, Edmonds, H N, Michael, P J, Baker, E T, Connelly, D P, Snow, J E, Langmuir, C H, Dick, H J B, Muhe, R, German, C R, Graham, D W, **421**, 252
Arctic region, Scientists call for Canada to boost polar-shelf funding, *News*, Spurgeon, D, **421**, 464
  Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618
  Earth science: Spread thin in the Arctic, *News and views*, Klein, E M, **423**, 932
  Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge, *Letter to Nature*, Jokat, W, Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J, **423**, 962
  Arctic rockets give glimpse of the atmosphere's top layers, *News*, Schiermeier, Q, **424**, 243
  Summer in Svalbard, *News feature*, Schiermeier, Q, **424**, 992
  An Arctic mammal fauna from the Early Pliocene of North America, *Letter to Nature*, Tedford, R H, Harington, C R, **425**, 388
  Arctic clean-up project aims to confront Soviet pollution legacy, *News in brief*, **425**, 892
  High interannual variability of sea ice thickness in the Arctic region, *Letter to Nature*, Laxon, S, Peacock, N, Smith, D, **425**, 947
  Roaming polar bears reveal Arctic role of pollutants, *News*, Willerroider, M, **426**, 5
  Digging in, *News feature*, Cyranoski, D, **426**, 492
Arctic ridge system, An ultraslow-spreading class of ocean ridge, *Article*, Dick, H J B, Lin, J, Schouten, H, **426**, 405
Arecibo observatory, Shake up for management at Arecibo radio telescope, *News in brief*, **421**, 6
Arf1 protein, Membrane trafficking: Coat control by curvature, *News and views*, Lippincott-Schwartz, J, Liu, W, **426**, 507
  Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor, *Article*, Renault, L, Guibert, B, Cherfils, J, **426**, 525
  Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature, *Letter to Nature*, Bigay, J, Gounon, P, Robineau, S, Antonny, B, **426**, 563
Argentina, CONICET, All change as Argentina's science leader keeps his job, *News*, Marzuola, C, **423**, 672
Argonaute 2 protein, Structure and nucleic-acid binding of the *Drosphila* Argonaute 2 PAZ domain, *Letter to Nature*, Lingel, A, Simon, B, Izaurralde, E, attler, M, **426**, 465
  Structure and conserved RNA binding of the PAZ domain, *Letter to Nature*, Yan, K S, Yan, S, Farooq, A, Han, A, Zeng, L, Zhou, M-M, **426**, 469
Ariane rocket launcher, Failed mission launch prompts ESA to reconsider comet target, *News*, Butler, D, **421**, 301
  Science shunted to the sidelines as EU sets out its space agenda, *News*, Butler, D, **424**, 115
ARKive project, Endangered footage finds an online ark, *News in brief*, **424**, 480
Armadillo, Chibby, a nuclear β-catenin-associated antagonist of the Wnt/Wingless pathway, *Letter to Nature*, Takemaru, K-I, Yamaguchi, S, Lee, Y S, Zhang, Y, Carthew, R W, Moon, R T, **422**, 905
aromatic hydrocarbons, Organic chemistry: Aromatics do the twist, *News and views*, Lemal, D M, **426**, 776
  Synthesis of a Möbius aromatic hydrocarbon, *Letter to Nature*, Ajami, D, Oeckler, O, Simon, A, Herges, R, **426**, 819
Arp2/3 protein, Microbial pathogenesis and cytoskeletal function, *Insight review article*, Gruenheid, S, Finlay, B B, **422**, 775
ARPC5 protein, Plant biology: Growing pains, *News and views*, Heemels, M-T, **423**, 820
β-arrestin-2, Immunology: Arresting asthma, *News and views*, Pilcher, H R, **425**, 34
arsenic, Epidemiologists warn of widespread arsenic problem in India, *News in brief*, **421**, 778
  Delta blues, *News feature*, Clarke, T, **422**, 254
  The arsenic green, *Science in culture*, Meharg, A, **423**, 688
art and science, Feature: The *Mona Lisa* of modern science, *Feature*, Kemp, M, **421**, 416
  Is a picture worth 1000 words?, *Commentary*, Ottino, J M, **421**, 474
  The subtle beauty of art in the service of science, *Correspondence*, Ippolito, F, **422**, 15
  Illustration: database pictures tell a true story, *Correspondence*, Catton, C, Shotton, D, **422**, 374
  Illustration: images fail to portray dynamic skies, *Correspondence*, Barnes, J E, **422**, 374
  Baghdad looters rob museum of priceless ancient treasures, *News in brief*, **422**, 654
  Nets and neuroses, *Science in culture*, Kemp, M, **422**, 666
  DNA from Alberts to Zinder, *Commentary*, Sherwood, P, **422**, 806
  Art after DNA, *Science in culture*, Gamwell, L, **422**, 817
  Art: A leap into the future, Rockman, A, *Book review*, **423**, 19
  Behind the wall, *Science in culture*, Abbott, A, **423**, 226
  Art: Science in site, *Book review by* Abbott, A, **423**, 385
  Vincent's golden image of a July night, *News in brief*, **423**, 794
  Father of atomic bomb gets night at the opera, *News in brief*, **423**, 911
  Dali and the double helix, *Correspondence*, Guardiola, E, Banos, J-E, **423**, 917
  Illustration: A fine body of work, *Book review*, Purton, M, **423**, 921
  Portrait: Updating Hooke, *Book review*, Kemp, M, **424**, 255
  Art: Seeing the light, *Book review*, Cyranoski, D, **424**, 726
  Lion man takes pride of place as oldest statue, *News*, Dalton, R, **425**, 7
  Sculpture: Breaking with tradition, *Book review*, Abbott, A, **425**, 19
  Unnatural coverage of Chernobyl tragedy, *Correspondence*, Pergams, O R W, **425**, 763
  Painting by numbers, *Science in culture*, Ball, P, **425**, 904
  Leonardo know the fluid boundaries of science, *Correspondence*, Grillo, S E, **426**, 15
  Installation: Making haze, *Book review*, Martin, C, **426**, 123
  Seeing the light, *Exhibition review*, Martin, C, **426**, 387
  Volcano breathed life into Munch's Scream, *News in brief*, **426**, 747
  Audubon in Edinburgh: and his Scottish Associates, Chalmers, J, *Book review by* Knight, D, **426**, 767
  Audubon's Elephant: The Story of John James Audubon's Epic Struggle to Publish The Birds of America, Hart-Davis, D, *Book review by* Knight, D, **426**, 767
  Archaeology: Art of the ancient, *News and views*, Sinclair, A, **426**, 774
artemisinins, Malaria: To kill a parasite, *News and views*, Ridley, R G, **424**, 887
  Artemisinins target the SERCA of *Plasmodium falciparum*, *Letter to Nature*, Eckstein-Ludwig, U, Webb, R J, van Goethem, I D A, East, J M, Lee, A G, Kimura, M, O'Neill, P M, Bray, P G, Ward, S A, Krishna, S, **424**, 957
arthritis, Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice, *Letter to Nature*, Sakaguchi, N, Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S, **426**, 454

arthropods, Robust judgement of inter-object distance by an arthropod, *Letter to Nature*, Hemmi, J M, Zell, J, **421**, 160
Pollinator attraction: Crab-spiders manipulate flower signals, *Brief communication*, Heiling, A M, Herberstein, M E, Chittka, L, **421**, 334
Involvement of *Notch* and *Delta* genes in spider segmentation, *Letter to Nature*, Stollewerk, A, Schoppmeier, M, Damen, W G M, **423**, 863
Palaeontology: Preserved organs of Devonian harvestmen, *Brief communication*, Dunlop, J A, Anderson, L I, Kerp, H, Hass, H, **425**, 916
artificial insemination, Directional postcopulatory sexual selection revealed by artificial insemination, *Letter to Nature*, Evans, J P, Zane, L, Francescato, S, Pilastro, A, **421**, 360
artificial machines, Unidirectional rotation in a mechanically interlocked molecular rotor, *Letter to Nature*, Leigh, D A, Wong, J K Y, Dehez, F, Zerbetto, F, **424**, 174
artificial neural networks, Cortex and Mind: Unifying Cognition, Fuster, J M, *Book review by* Martin, K, **423**, 383
artificial reefs, Doubts swirl around plan to use rigs as reefs, *News*, Mason, B, **425**, 891
ArXiv, Preprint server seeks way to halt plagiarists, *News*, Giles, J, **426**, 7
ArXiv server, Biologists join physics preprint club, *News*, Butler, D, **425**, 548
Defamation, online, *Opinion*, **426**, 1
Critical comments threaten to open libel floodgate for physics archive, *News*, Giles, J, **426**, 7
asexual reproduction, Evolutionary biology: Asexual means of mutation control, *News and views*, Whitfield, J, **422**, 393
Asia, endangered species, The law of the jungle, *News feature*, Whitfield, J, **421**, 8
Asian monsoon, Global change: Monsoon linkages, *News and views*, Zahn, R, **421**, 324
Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean, *Letter to Nature*, Gupta, A K, Anderson, D M, Overpeck, J T, **421**, 354
aspirin, Microbiology: Aspirin bites at bugs, *News and views*, Pearson, H, **424**, 507
Signal transduction: Aspirin, ubiquitin and cancer, *News and views*, Wilkinson, K D, **424**, 738
assisted reproduction, Reining in assisted reproduction, *Opinion*, **422**, 647
Seeds of doubt, *News feature*, Powell, K, **422**, 656
Low embryo count fuels US stem-cell debate, *News*, Powell, K, **423**, 213
US federal funding ban puts babies at risk, *Correspondence*, Carson, S, Brzyski, R, **423**, 381
Test-tube babies 'not at risk of brain defects', *News in brief*, **424**, 120
asteroids, No reduction in risk of a massive asteroid impact, *Correspondence*, Chapman, C R, Morrison, D, **421**, 473
Disruption of fragmented parent bodies as the origin of asteroid families, *Letter to Nature*, Michel, P, Benz, W, Richardson, D C, **421**, 608
Long-lost wave report sinks asteroid impact theory, *News*, Dalton, R, **421**, 679
Planetary science: Of asteroids and onions, *News and views*, Wood, J A, **422**, 479
Structure and thermal history of the H-chondrite parent asteroid revealed by thermochronometry, *Letter to Nature*, Trieloff, M, Jessberger, E K, Herrwerth, I, Hopp, J, Flénl, C, Ghelis, M, Bourot-Denise, M, Pellas, P, **422**, 502
Interplanetary dust from the explosive dispersal of hydrated asteroids by impacts, *Letter to Nature*, Tomeoka, K, Kiriyama, K, Nakamura, K, Yamahana, Y, Sekine, T, **423**, 60
Asteroid probe to test technologies, *News*, Cyranoski, D, **423**, 212
Efficient disruption of small asteroids by Earth's atmosphere, *Letter to Nature*, Bland, P A, Artemleva, N A, **424**, 288
Spin control for asteroids, *News and views*, Binzel, R P, **425**, 131
The vector alignments of asteroid spins by thermal torques, *Article*, Vokrouhlicky, D, Nesvorny, D, Bottke, W F, **425**, 147
Astronomy: Asteroids warm to analysis; *News and views*, Clarke, T, **426**, 242
asthma, Immunology: Arresting asthma, *News and views*, Pilcher, H R, **425**, 34
astrobiology, Evolving the Alien: The Science of Extraterrestrial Life, Cohen, J, Stewart, I, *Book review by* Krauss, L M, **421**, 114
The Life and Death of Planet Earth: How the New Science of Astrobiology Charts the Ultimate Fate of our World, Ward, P D, Brownlee, D, *Book review by* Sleep, N H, **422**, 663
Astrobiology: A salty life on Europa?, *News and views*, Ball, P, **422**, 829
astrocytoma, Cancer: Location, location, location, *News and views*, Thomas, C, **425**, 34
astronomy, Comet mission hangs in the balance, *News*, Adam, D, Butler, D, **421**, 102
High-altitude observatory meets mounting opposition, *News in brief*, **421**, 103
Safety doubts force rethink of embattled comet mission, *News*, Butler, D, **421**, 198
Bushfires annihilate Australian observatory, *News*, Dennis, C, **421**, 302
The Century of Space Science, Bleeker, J A, Geiss, J, Huber, M C E, *Book review by* Hodge, P, **421**, 316
Astronomy: Feeding the first quasars, *News and views*, Ferrarese, L, **421**, 329
Spectral signature of cosmological infall of gas around the first quasars, *Letter to Nature*, Barkana, R, Loeb, A, **421**, 341
Stargazers win heated battle over Native American site, *News in brief*, **421**, 466
Astronomy: Distant planet is the hottest yet, *News and views*, Brown, T M, **421**, 488
Astronomy: Star formation out at the edges, *News and views*, Clarke, T, **421**, 493
An extrasolar planet that transits the disk of its parent star, *Letter to Nature*, Konacki, M, Torres, G, Jha, S, Sasselov, D D, **421**, 507
On the Shoulders of Giants: The Great Works of Physics and Astronomy, Hawking, S, *Book review by* Gingerich, O, **421**, 694
Astronomy: Hot gas around the Galaxy, *News and views*, Sternberg, A, **421**, 708
Particle physics: Photon charge reaches new limits, *News and views*, Ball, P, **421**, 709
The far-ultraviolet signature of the 'missing' baryons in the Local Group of Galaxies, *Letter to Nature*, Nicastro, F, Zezas, A, Elvis, M, Mathur, S, Flore, F, Cecchi-Pestellini, C, Burke, D, Drake, J, Casella, P, **421**, 719
The Road to Galaxy Formation, Keel, W C, *Book review by* Baugh, C, **421**, 791
Investigation of the obscuring circumnuclear torus in the active galaxy Mrk231, *Letter to Nature*, Klöckner, H-R, Baan, W A, Garrett, M A, **421**, 821
Astronomers urge NASA not to cut corners on Hubble successor, *News*, Reichhardt, T, **422**, 3
'Revolutionary' telescope gets green light, *News*, Adam, D, **422**, 4
Astronomy: The long and the short of it, *News and views*, Clarke, T, **422**, 33
Supernova study shows how ancients saw the light, *News in brief*, **422**, 106
Astronomy: Atmosphere out of that world, *News and views*, Charbonneau, D, **422**, 124
Solar system: Close encounter of the cometary kind, *News and views*, Wright, A, **422**, 130
An extended upper atmosphere around the extrasolar planet HD209458b, *Letter to Nature*, Vidal-Madjar, A, Lecavelier des Etangs, A, Desert, J-M, Ballester, G E, Ferlet, R, Hébrard, G, Mayor, M, **422**, 143
Astronomy: Glowing embers, *News and views*, Piran, T, **422**, 268
Early optical emission from the γ-ray burst of 4 October 2002, *Letter to Nature*, Fox, D W, Yost, S, Kulkarni, S R, Torii, K, Kato, T, Yamaoka, H, Sako, M, Harrison, F A, Sari, R, Price, P A, Berger, E, Soderberg, A M, Djorgovski, S G, Barth, A J, Pravdo, S H, Frail, D A, Gal-Yam, A, Lipkin, Y, Mauch, T, Harrison, C, Buttery, H, **422**, 284
Stargazer sees red, *News in brief*, **422**, 366
An energetic stellar outburst accompanied by circumstellar light echoes, *Letter to Nature*, Bond, H E, Henden, A, Levay, Z G, Panagia, N, Sparks, W B, Starrfield, S, Wagner, R M, Corradi, R L M, Munari, U, **422**, 405
Smile, it's the world's biggest digital camera, *News in brief*, **422**, 654
Worlds apart, *News feature*, Falk, D, **422**, 659
Astronomy: Wrestling monsters in deep space, *News and views*, Cowie, L, **422**, 670
Astronomy: Telling the tale of the first stars, *News and views*, Beers, T C, **422**, 825
Rocket-engine defect delays observatory launch, *News in brief*, **423**, 8
Astronomy: Elements of surprise, *News and views*, Cowan, J, **423**, 29
Catch a falling star, *News and views*, Drummond, J, **423**, 123
Photographic observations of Neuschwanstein, a second meteorite from the orbit of the Přibram chondrite, *Letter to Nature*, Spurný, P, Oberst, J, Heinlein, D, **423**, 151
Spiralling costs dog comet mission, *News*, Butler, D, **423**, 372
Astronomy: New direction for γ-rays, *News and views*, Waxman, E, **423**, 388
Polarization of the prompt γ-ray emission from the γ-ray burst of 6 December 2002, *Letter to Nature*, Coburn, W, Boggs, S E, **423**, 415
Mars attracts!, *News feature*, Giles, J, **423**, 473
Astronomy: Sprinkler system, *News and views*, Wright, A, **423**, 492
A class of compact dwarf galaxies from disruptive processes in galaxy clusters, *Letter to Nature*, Drinkwater, M J, Gregg, M D, Hilker, M, Bekki, K, Couch, W J, Ferguson, H C, Jones, J B, Phillips, S, **423**, 519
Canadians see stars after cash windfall, *News in brief*, **423**, 578
An extragalactic supernebula confined by gravity, *Letter to Nature*, Turner, J L, Beck, S C, Crosthwaite, L P, Larkin, J E, McLean, I S, Meier, D S, **423**, 621
A strong decrease in Saturn's equatorial jet at cloud level, *Letter to Nature*, Sánchez-Lavega, A, Pérez-Hoyos, S, Rojas, J F, Hueso, R, French, R G, **423**, 623
Astronomers leap to defence of extra seconds in time debate, *News*, Brumfiel, G, **423**, 671
A questioning of timing, *News and views*, Alexander, C, **423**, 691
Vincent's golden image of a July night, *News in brief*, **423**, 794
Structure in the early afterglow light curve of the γ-ray burst of 29 March 2003, *Letter to Nature*, Uemura, M, Kato, T, Ishioka, R, Yamaoka, H, Monard, B, Nogami, D, Maehara, H, Sugie, A, Takahashi, S, **423**, 843
The bright optical afterglow of the nearby γ-ray burst of 29 March 2003, *Letter to Nature*, Price, P A, Fox, D W, Kulkarni, S R, Peterson, B A, Schmidt, B P, Soderberg, A M, Yost, S A, Berger, E, Djorgovski, S G, Frail, D A, Harrison, F A, Sari, R, Blain, A W, Chapman, S C, **423**, 844
Astronomers try to save Mars probe, *News*, Cyranoski, D, **424**, 6
Young women astronomers are in the ascendant, *News in brief*, **424**, 8
Astronomy: Heartbeats of a neutron star, *News and views*, Wagoner, R V, **424**, 27
Nuclear-powered millisecond pulsars and the maximum spin frequency of neutron stars, *Letter to Nature*, Chakrabarty, D, Morgan, E H, Muño, M P, Galloway, D K, Wijnands, R, van der Klis, M, Markwardt, C B, **424**, 42
Quasi-periodic X-ray brightness fluctuations in an accreting millisecond pulsar, *Letter to Nature*, Wijnands, R, van der Klis, M, Homan, J, Chakrabarty, D, Markwardt, C B, Morgan, E H, **424**, 44
Planetary science: Pluto's atmospheric surprise, *News and views*, Hubbard, W, **424**, 137
Astronomy: An early stellar nursery, *News and views*, Solomon, P, **424**, 382
Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$, *Letter to Nature*, Walter, F, Bertoldl, F, Carilli, C, Cox, P, Lo, K Y, Neri, R, Fan, X, Omont, A, Strauss, M A, Menten, K M, **424**, 406
Astronomy: An elementary puzzle, *News and views*, Baron, E, **424**, 628
The evolution of comets in the Ooort cloud and Kuiper belt, *Progress article*, Stern, S A, **424**, 639
An asymptotic-giant-branch star in the progenitor system of a type Ia supernova, *Letter to Nature*, Hamuy, M, Phillips, M M, Suntzeff, N B, Maza, J, González, L E, Roth M, Krisciunas, K, Morrell, N, Green, E M, Persson, S E, McCarthy, P J, **424**, 651
Astronomers count the cost of thinking big, *News*, Dennis, C, **424**, 714
NASA panel sees starry future for Hubble telescope, *News in brief*, **424**, 868
Prizes aplenty honour genetics and astronomy, *News in brief*, **425**, 230
The formation of cluster elliptical galaxies as revealed by extensive star formation, *Letter to Nature*, Stevens, J A, Ivison, R J, Dunlop, J S, Smail, I R, Percival, W J, Hughes, D H, Rottgering, H J A, van Breugel, W J M, Reuland, M, **425**, 264
Cosmology: The shape of the Universe, *News and views*, Ellis, G F R, **425**, 566
Telescope trains a MAGIC eye on the Universe, *News in brief*, **425**, 653
Astronomy: Faking it, *News and views*, Wright, A, **425**, 677
Computer programs to call the shots for astronomers, *News in brief*, **425**, 756
Applied physics: To catch a photon, *News and views*, Prober, D E, **425**, 777
The formation of the first low-mass stars from gas with low carbon and oxygen abundances, *Letter to Nature*, Bromm, V, Loeb, A, **425**, 812
Black holes: Sparks of interest, *News and views*, Narayan, R, **425**, 908
Near-infrared flares from accreting gas around the supermassive black hole at the Galactic Centre, *Letter to Nature*, Genzel, R, Schödel, R, Ott, T, Eckart, A, Alexander, T, Lacombe, F, Rouan, D, Aschenbach, B, **425**, 934
View of space expands in both directions, *News in brief*, **426**, 113
Night club, *News feature*, Brumfiel, G, **426**, 116
Astronomy: The mystery companion, *News and views*, Soker, N, **426**, 236
Astronomy: Asteroids warm to analysis, *News and views*, Clarke, T, **426**, 242
Astronomy: Black holes, fleas and microlithography, *Brief communication*, Skinner, G, Gorenstein, P, **426**, 245
Astronomy: Beacons in the distant cosmos, *News and views*, Piro, L, **426**, 397
Astronomy: Wide-angle lens, *News and views*, Wambsganss, J, **426**, 781
A gravitationally lensed quasar with quadruple images separated by 14.62 arcseconds, *Letter to Nature*, Inada, N, Oguri, M, Pindor, B, Hennawi, J F, Chiu, K, Zheng, W, Ichikawa, S-I, Gregg, M D, Becker, R H, Suto, Y, Strauss, M A, Turner, E L, Keeton, C R, Annis, J, Castander, F J, Eisenstein, D J, Frieman, J A, Fukugita, M, Gunn, J E, Johnston, D E, Kent, S M, Nichol, R C, Richards, G T, Rix, H-W, Sheldon, E S, Bahcall, N A, Brinkmann, J, Ivezic, Z, Lamb, D Q, McKay, T A, Schneider, D P, York, D G, **426**, 810
astronomy, high-energy, High-energy astronomy: Flashes from planet smashes, *News and views*, Ball, P, **424**, 1011
astrophysics, Astrophysics: How did the metals in a giant star originate, *Brief communication*, Bonifacio, P, Limongi, M, Chieffi, A, **422**, 834
Homestake strikes gold in underground review, *News in brief*, **423**, 578
Astrophysics: Superficial resonance, *News and views*, Paerels, F, **423**, 697
The magnetic field of an isolated neutron star from X-ray cyclotron absorption lines, *Letter to Nature*, Bignami, G F, Caraveo, P A, De Luca, A, Mereghetti, S, **423**, 725
Contemporaneous formation of chondrules and refractory inclusions in the early Solar System, *Letter to Nature*, Itoh, S, Yurimoto, H, **423**, 728
India plans to bring neutrino science home, *News*, Jayaraman, K S, **423**, 909
Astrophysics: Star spins flat out, *News and views*, Ball, P, **423**, 935
Astrophysics: Pulsar pinpointed, *News and views*, Ball, P, **424**, 740
Quantum gravity: An astrophysical constraint, *News and views*, Carroll, S, **424**, 1007
A strong astrophysical constraint on the violation of special relativity by quantum gravity, *Letter to Nature*, Jacobson, T, Liberati, S, Mattingly, D, **424**, 1019

Astrophysics: Planetary orbits to the time warp, *News and views*, Baker, J, **425**, 34
Second astronaut given NASA's top science job, *News in brief*, **425**, 115
Plasma physics: Cosmic waves in the lab, *News and views*, Boswell, R, **425**, 353
Astrophysics: Dark interactions, *News and views*, Baker, J, **425**, 364
Astrophysics: Lost lithium, *News and views*, Baker, J, **425**, 472
Astrophysics: Refreshed shocks from a γ-ray burst, *Brief communication*, Granot, J, Nakar, E, Piran, T, **426**, 138
Astrophysics: A constraint on canonical quantum gravity?, *Brief communication*, Mitrofanov, I G, **426**, 139
Astrophysics: Testing time for gravity, *News and views*, van den Heuvel, E P J, **426**, 504
An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system, *Letter to Nature*, Burgay, M, D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R, **426**, 531

asymmetry, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123
Asymmetric pores in a silicon membrane acting as massively parallel brownian ratchets, *Letter to Nature*, Matthias, S, Müller, F, **424**, 53
A microRNA controlling left/right neuronal asymmetry in *Caenorhabditis elegans*, *Letter to Nature*, Johnston, R J, Hobert, O, **426**, 845

Atacama Large Millimeter Array, 'Revolutionary' telescope gets green light, *News*, Adam, D, **422**, 4
Canadians see stars after cash windfall, *News in brief*, **423**, 578

ataxia-telangiectasia, DNA damage activates ATM through intermolecular autophosphorylation, *Article*, Bakkenist, C J, Kastan, M B, **421**, 499
Telomere dysfunction and Atm deficiency compromises organ homeostasis and accelerates ageing, *Letter to Nature*, Wong, K-K, Maser, R S, Bachoo, R M, Menon, J, Carrasco, D R, Gu, Y, Alt, F W, DePinho, R A, **421**, 643

Atkinson, George, Adviser gears up to bring scientists to matters of state, *News*, Brumfiel, G, **425**, 439

Atlantic Ocean, Atlantic cod meet icy death, *News*, Hoag, H, **422**, 792
Oceanography: Stirring time in the Atlantic, *News and views*, Dickson, B, **424**, 141
Climate change: Chilled out in the ice-age Atlantic, *News and views*, Mix, A C, **425**, 32
A change in the freshwater balance of the Atlantic Ocean over the past four decades, *Letter to Nature*, Curry, R, Dickson, B, Yashayaev, I, **426**, 826

***Atm* gene**, Telomere dysfunction and Atm deficiency compromises organ homeostasis and accelerates ageing, *Letter to Nature*, Wong, K-K, Maser, R S, Bachoo, R M, Menon, J, Carrasco, D R, Gu, Y, Alt, F W, DePinho, R A, **421**, 643

ATM protein kinase, DNA repair: Damage alert, *News and views*, Bartek, J, Lukas, J, **421**, 486
DNA damage activates ATM through intermolecular autophosphorylation, *Article*, Bakkenist, C J, Kastan, M B, **421**, 499

atmosphere, Earth's, Efficient disruption of small asteroids by Earth's atmosphere, *Letter to Nature*, Bland, P A, Artemleva, N A, **424**, 288

atmosphere, planetary, Planetary science: Sodium at Io, *News and views*, Hunten, D M, **421**, 30
Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus, *Letter to Nature*, Lellouch, E, Paubert, G, Moses, J I, Schneider, N M, Strobel, D F, **421**, 45
Planetary science: The history of air, *News and views*, Melosh, H J, **424**, 22

atmosphere, zonal winds, Outer planets: Origins of atmospheric zonal winds, *Brief communication*, Yano, J-I, Talagrand, O, Drossart, P, **421**, 36

atmospheric chemistry, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28
Atmospheric chemistry: Water molecules pair in air, *News and views*, Ball, P, **424**, 31
Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H_2, *Letter to Nature*, Rahn, T, Eiler, J M, Boering, K A, Wennberg, P O, McCarthy, M C, Tyler, S, Schauffler, S, Donnelly, S, Atlas, E, **424**, 918
Atmospheric chemistry: Iron injection, *News and views*, Ball, P, **426**, 242
Climate study highlights inadequacy of emissions cuts, *News*, Schiermeier, Q, **426**, 486

atmospheric circulation, Mathematics: Regime change in meteorology, *News and views*, Stewart, I, **422**, 571

atmospheric composition, The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, Berner, R A, **426**, 323

atmospheric physics, Atmospheric physics: Electric jets, *News and views*, Pasko, V P, **423**, 927
Atmospheric physics: A new dawn for aurora, *News and views*, Newell, P T, **424**, 734
Atmospheric physics: Breaking waves, *News and views*, Lincoln, T, **426**, 402

atmospheric pollution, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28

atmospheric science, Atmospheric science: Lightning satellite survey, *News and views*, Clarke, T, **421**, 228
Atmospheric science: Quick, quick, slow, *News and views*, Lincoln, T, **422**, 132
Ultraviolet light and leaf emission of NO$_x$, *Brief communication*, Hari, P, Raivonen, M, Vesala, T, Munger, J W, Pilegaard, K, Kulmala, M, **422**, 134
Gigantic jets between a thundercloud and the ionosphere, *Letter to Nature*, Su, H T, Hsu, R R, Chen, A B, Wang, Y C, Hsiao, W S, Lai, W C, Lee, L C, Sato, M, Fukunishi, H, **423**, 974
Planetary science: Pluto's atmospheric surprise, *News and views*, Hubbard, W, **424**, 137
Large changes in Pluto's atmosphere as revealed by recent stellar occultations, *Letter to Nature*, Sicardy, B, Widemann, T, Lellouch, E, Veillet, C, Cuillandre, J-C, Colas, F, Roques, F, Beisker, W, Kretlow, M, Lagrange, A-M, Gendron, E, Lacombe, F, Lecacheux, J, Birnbaum, C, Flenga, A, Leyrat, C, Maury, A, Raynaud, F, Renner, S, Schultheis, M, Brooks, K, Delsanti, A, Halnaut, O R, Gilmozzi, R, Lidman, C, Spyromillo, J, Rapaport, M, Rosenzweig, P, Naranjo, O, Porras, L, Diaz, F, Calderon, H, Carrillo, S, Carvajal, A, Recalde, E, Gaviria Cavero, L, Montalvo, C, Barria, D, Campos, R, Duffard, R, Levato, H, **424**, 168
Arctic rockets give glimpse of the atmosphere's top layers, *News*, Schiermeier, Q, **424**, 243
Atmospheric science: African dust in Florida clouds, *News and views*, Toon, O B, **424**, 623
Summer in Svalbard, *News feature*, Schiermeier, Q, **424**, 992
Global change: Probing early atmospheres, *News and views*, Mojzsis, S J, **425**, 249

atomic bomb, Father of atomic bomb gets night at the opera, *News in brief*, **423**, 911
A dose of the bomb, *News and views*, Little, M P, **424**, 495
Measuring fast neutrons in Hiroshima at distances relevant to atomic-bomb survivors, *Letter to Nature*, Straume, T, Rugel, G, Marchetti, A A, Ruhm, W, Korschinek, G, McAninch, J E, Carroll, K, Egbert, S, Faestermann, T, Knie, K, Martinelli, R, Wallner, A, Wallner, C, **424**, 539

atomic clocks, The times, they are a-changin', *News feature*, Adam, D, **421**, 207

atomic collisions, Three-dimensional imaging of atomic four-body processes, *Letter to Nature*, Schulz, M, Moshammer, R, Fischer, D, Kollmus, H, Madison, D H, Jones, S, Ullrich, J, **422**, 48

atomic force microscopy, Dying cells dragged screaming under the microscope, *News*, Zandonella, C, **423**, 106
Microscopy: Nanoscience in ribbons, *News and views*, Ball, P, **423**, 134

atomic imaging, Atomic imaging: Like peas in a 'nanopod', *News and views*, Gerstner, E, **421**, 804

atomic physics, Atomic physics: A new spin on magnetometry, *News and views*, Budker, D, **422**, 574
A subfemtotesla multichannel tomic magnetometer, *Letter to Nature*, Kominis, I K, Kornack, T W, Allred, J C, Romalis, M V, **422**, 596
Rocky Mountain high, *News feature*, Aldhous, P, **423**, 915
Atomic physics: Squishy ball lightning, *News and views*, Ball, P, **425**, 253

atomic waste, Court rejects corner-cutting in bid to clear atomic waste, *News in brief*, **424**, 120

atomic weapons, Court rejects corner-cutting in bid to clear atomic waste, *News in brief*, **424**, 120

atopy, Immunology: Hepatitis A virus link to atopic disease, *Brief communication*, McIntire, J J, Umetsu, S E, Macaubus, C, Hoyte, E G, Cinnioglu, C, Cavalli-Sforza, L L, Barsh, G S, Hallmayer, J F, Underhill, P A, Risch, N J, Freeman, G J, DeKruyff, R H, Umetsu, D T, **425**, 576

ATP, *See* adenosine triphosphate

ATP synthase, Ectopic β-chain of ATP synthase is an apolipoprotein A-I receptor in hepatic HDL endocytosis, *Letter to Nature*, Martinez, L O, Jacquet, S, Esteve, J-P, Rolland, C, Cabezon, E, Champagne, E, Pineau, T, Georgeaud, V, Walker, J E, Terce, F, Collet, X, Perret, B, Barbaras, R, **421**, 75

attention, Action video game modifies visual selective attention, *Letter to Nature*, Green, C S, Bavelier, D, **423**, 534
Sustained division of the attentional spotlight, *Letter to Nature*, Müller, M M, Malinowski, P, Gruber, T, Hillyard, S A, **424**, 309
Corrigendum: Sustained division of the attentional spotlight, *Letter to Nature*, Muller, M M, Malinowski, P, Gruber, T, Hillyard, S A, **426**, 584

attophysics, Attophysics: Ultrafast control, *News and views*, Bucksbaum, P H, **421**, 593
Attosecond control of electronic processes by intense light fields, *Letter to Nature*, Baltuška, A, Udem, Th, Uiberacker, M, Hentschel, M, Goulielmakis, E, Gohle, Ch, Holzwarth, R, Yakovlev, V S, Scrinzi, A, Hänsch, T W, Krausz, F, **421**, 611
Probing molecular dynamics with attosecond resolution using correlated wave packet pairs, *Letter to Nature*, Niikura, H, Légaré, F, Hasbani, R, Ivanov, M Y, Villeneuve, D M, Corkum, P B, **421**, 826
Erratum: Attosecond control of electronic processes by intense light fields, *Letter to Nature*, Baltuška, A, Udem, Th., Uiberacker, M, Hentschel, M, Goulielmakis, E, Ghole, Ch., Holzwarth, R, Yakoviev, V S, Scrinzi, A, Hänsch, T W, Krausz, F, **422**, 189

attosecond light bunching, Direct observation of attosecond light bunching, *Letter to Nature*, Tzallas, P, Charalambidis, D, Papadoglannis, N A, Witte, K, Tsakiris, G D, **426**, 267

audiovisual perception, Audiovisual perception: Implicit estimation of sound-arrival time, *Brief communication*, Sugita, Y, Suzuki, Y, **421**, 911

auditory cortex, Topography and synaptic shaping of direction selectivity in primary auditory cortex, *Letter to Nature*, Zhang, L I, Tan, A Y Y, Schreiner, C E, Merzenich, M M, **424**, 201
Balanced inhibition underlies tuning and sharpens spike timing in auditory cortex, *Letter to Nature*, Wehr, M, Zador, A M, **426**, 442

auditory feedback, Somatosensory basis of speech production, *Letter to Nature*, Tremblay, S, Shiller, D M, Ostry, D J, **423**, 866

auditory perception, Prediction of auditory spatial acuity from neural images on the owl's auditory space map, *Letter to Nature*, Bala, A D S, Spitzer, M W, Takahashi, T T, **424**, 771
Psychoacoustics: Hearing ghosts, *News and views*, Ball, P, **425**, 914
Balanced inhibition underlies tuning and sharpens spike timing in auditory cortex, *Letter to Nature*, Wehr, M, Zador, A M, **426**, 442

Audubon, John James, Audubon in Edinburgh: and his Scottish Associates, Chalmers, J, *Book review by* Knight, D, **426**, 767
Audubon's Elephant: The Story of John James Audubon's Epic Struggle to Publish The Birds of America, Hart-Davis, D, *Book review by* Knight, D, **426**, 767

aurora australis, Atmospheric physics: A new dawn for aurora, *News and views*, Newell, P T, **424**, 734

aurora B kinase, Cell cycle: Passenger acrobatics, *News and views*, Higuchi, T, Uhlmann, F, **426**, 780

aurora borealis, Atmospheric physics: A new dawn for aurora, *News and views*, Newell, P T, **424**, 734

aurora, Earth's, Space station light show sparks aurora riddle, *News*, Reichhardt, T, **425**, 888
Casting light on mystery of auroral flashes, *Correspondence*, Freeman, L, **426**, 227

Australia, Cash crisis casts pall over synchrotron X-ray source, *News*, Dennis, C, **423**, 210
Australian reform will see universities put squeeze on students, *News in brief*, **423**, 374

Australia, bushfires, Burning issues, *News feature*, Dennis, C, **421**, 204
Bushfires annihilate Australian observatory, *News*, Dennis, C, **421**, 302

Australia, climate change, New ages for human occupation and climatic change at Lake Mungo, Australia, *Letter to Nature*, Bowler, J M, Johnston, H, Olley, J M, Prescott, J R, Roberts, R G, Shawcross, W, Spooner, N A, **421**, 837

Australia, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Researchers rue hasty destruction of wheat, *News*, Dennis, C, **423**, 210
Australia beefs up an udder genome project, *News in brief*, **424**, 606

Australia, fossils, Human evolution: Robust ideas, *News and views*, Gee, H, **425**, 914
Bone archives face prospect of dispersal, *News*, Giles, J, **426**, 109

Australia, genome research, Australia beefs up an udder genome project, *News in brief*, **424**, 606

Australia, Great Barrier Reef, Global change: Dishing the dirt on coral reefs, *News and views*, Cole, J, **421**, 705
Coral record of increased sediment flux in the inner Great Barrier Reef since European settlement, *Letter to Nature*, McCulloch, M, Fallon, S, Wyndham, T, Hendy, E, Lough, J, Barnes, D, **421**, 727

Australia, Mount Stromlo Observatory, Bushfires annihilate Australian observatory, *News*, Dennis, C, **421**, 302

Australia, National Committee for Astronomy, Astronomers count the cost of thinking big, *News*, Dennis, C, **424**, 714

Australia, patents, Row over junk DNA patents comes home to Australia, *News in brief*, **424**, 480

Australia, stem-cell research, Head of Australian stem-cell centre quits to return to science, *News in brief*, **424**, 716

Australia, universities, Pursuing diversified universities, *Opinion*, **423**, 465

Australopithecus afarensis, Television review: Walking with Cavemen, Dale, R, *Book review by* Gamble, C, **422**, 473
Human evolution: Being manipulative, *News and views*, Whitfield, J, **422**, 577

Austrian Science Fund, Heated response thaws Austria's frozen budget, *News in brief*, **425**, 230

autism, US draws up plans to tackle autism, *News*, Singer, E, **426**, 373

autoantibodies, Evolving concepts of rheumatoid arthritis, *Insight review article*. Firestein, G S, **423**, 356

autocorrelation, Direct observation of attosecond light bunching, *Letter to Nature*, Tzallas, P, Charalambidis, D, Papadoglannis, N A, Witte, K, Tsakiris, G D, **426**, 267

autoimmune disease, Immunology: Fast and feel good?, *News and views*, Kuchroo, V K, Nicholson, L B, **422**, 27
Association of the T-cell regulatory gene *CTLA4* with susceptibility to autoimmune disease, *Article*, Ueda, H, Howson, J M M, Esposito, L, Heward, J, Snook, H, Chamberlain, G, Rainbow, D B, Hunter, K M D, Smith, A N, Di Genova, G, Herr, M H, Dahlman, I, Payne, F, Smyth, D, Lowe, C, Twells, R C J, Howlett, S, Healy, B, Nutland, S, Rance, H E, Everett, V, Smink, L J, Lam, A C, Cordell, H J, Walker, N M, Bordin, C, Hulme, J, Motzo, C, Cucca, F, Hess, J F, Metzker, M L, Rogers, J, Gregory, S, Allahabadia, A, Nithiyananthan, R, Tuomilehto-Wolf, E, Tuomilehto, J, Bingley, P, Gillespie, K M, Undlien, D E, Ronningen, K S, Guja, C, Ionescu-Tîrgovişte, C, Savage, D A, Maxwell, A P, Carson, D J, Patterson, C C, Franklyn, J A, Clayton, D G, Peterson, L B, Wicker, L S, Todd, J A, Gough, S C L, **423**, 506

autoimmune encephalomyelitis, Medicine: Collateral damage repaired, *News and views*, Steinman, L, **422**, 671
Injection of adult neurospheres induces recovery in a chronic model of multiple sclerosis, *Article*, Pluchino, S, Quattrini, A, Brambilla, E, Gritti, A, Salani, G, Dina, G, Galli, R, Del Carro, U, Amadio, S, Bergami, A, Furlan, R, Comi, G, Vescovi, A L, Martino, G, **422**, 688

autoimmunity, Autoimmunity: A case of mistaken identity, *News and views*, Watford, W T, O'Shea, J J, **421**, 706
Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744

Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice, *Letter to Nature*, Sakaguchi, N, Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S, **426**, 454
automata, A mechanical mind, *Science in culture*, Kemp, M, **421**, 214
automobiles, Hydrogen cars fuel debate on basic research, *News*, Brumfiel, G, **422**, 104
  Car-safety lobby on collision course with researchers, *News*, Reichhardt, T, **423**, 675
Autonomous Benthic Explorer, Robots in the deep, *News feature*, Clarke, T, **421**, 468
autonomous underwater vehicles, Robots in the deep, *News feature*, Clarke, T, **421**, 468
autophosphorylation, DNA damage activates ATM through intermolecular autophosphorylation, *Article*, Bakkenist, C J, Kastan, M B, **421**, 499
Autran, Brigitte, Trial suggests vaccines could aid HIV therapy, *News*, Check, E, **422**, 650
auxetic materials, Avoiding the shrink, *Concepts*, Baughman, R H, **425**, 667
auxins, Auxin promotes *Arabidopsis* root growth by modulating gibberellin response, *Letter to Nature*, Fu, X, Harberd, N P, **421**, 740
  Enhanced gravi- and phototropism in plant *mdr* mutants mislocalizing the auxin efflux protein PIN1, *Letter to Nature*, Noh, B, Bandyopadhyay, A, Peer, W A, Spalding, E P, Murphy, A S, **423**, 999
  Plant development: An axis of auxin, *News and views*, Kepinski, S, Leyser, O, **426**, 132
  Efflux-dependent auxin gradients establish the apical-basal axis of *Arabidopsis*, *Article*, Friml, J, Vieten, A, Sauer, M, Weijers, D, Schwarz, H, Hamann, T, Offringa, R, Jürgens, G, **426**, 147
  Plant development: Leaves by number, *News and views*, Surridge, C, **426**, 237
  Regulation of phyllotaxis by polar auxin, *Article*, Reinhardt, D, Pesce, E-R, Stieger, P, Mandel, T, Baltensperger, K, Bennett, M, Traas, J, Friml, J, Kuhlemeier, C, **426**, 255
avalanches, Avalanche!, *News feature*, Schiermeier, Q, **421**, 887
avian behaviour, Avian behaviour: Altruism and infidelity among warblers, *Brief communication*, Richardson, D S, Komdeur, J, Burke, T, **422**, 580
avian influenza, Chicken flu races through Dutch poultry farms, *News*, Abbott, A, **422**, 247
  Spread of bird flu triggers Dutch Easter egg hunt, *News in brief*, **422**, 552
  Human fatality adds fresh impetus to fight against bird flu, *News*, Abbott, A, **423**, 5
Avida software, The evolutionary origin of complex features, *Article*, Lenski, R E, Ofria, C, Pennock, R T, Adami, C, **423**, 139
Avogadro's number, Chemists weigh up change to fundamental constant, *News in brief*, **425**, 336
axions, The dark side, *News and views feature*, Fukugita, M, **422**, 489
axons, Developmental biology: Guidance molecule goes global, *News and views*, Schuldt, A, **422**, 125
  Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning, *Letter to Nature*, Nishiyama, M, Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-M, Hong, K, **423**, 990

B-cells, Immunology: Assisted suicide for B cells, *News and views*, Arnheim, L, **423**, 238
  Development and maintenance of B and T lymphocytes requires antiapoptotic MCL-1, *Letter to Nature*, Opferman, J T, Letal, A, Beard, C, Sorcinelli, M D, Ong, C C, Korsmeyer, S J, **426**, 671
***Bab2* gene**, Genetic mechanisms and constraints governing the evolution of correlated traits in drosophilid flies, *Letter to Nature*, Gompel, N, Carroll, S B, **424**, 931
BaBar particle detector, Preprint server seeks way to halt plagiarists, *News*, Giles, J, **426**, 7
baboons, Behavioural ecology: Father knows best, *News and views*, Sherman, P W, Neff, B D, **425**, 136
  True paternal care in a multi-male primate society, *Letter to Nature*, Buchan, J C, Alberts, S C, Silk, J B, Altmann, J, **425**, 179
Babri Masjid mosque, Minister knocked down by court verdict on mosque demolition, *News in brief*, **425**, 442
Bacillus anthracis, Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
  The genome sequence of *Bacillus anthracis* Ames and comparison to closely relates bacteria, *Letter to Nature*, Read, T D, Peterson, S N, Tourasse, N, Baillie, L W, Paulsen, I T, Nelson, K E, Tettelin, H, Fouts, D E, Eisen, J A, Gill, S R, Holtzapple, E K, Okstad, O A, Helgason, E, Rilstone, J, Wu, M, Kolonay, J F, Beanan, M J, Dodson, R J, Binkac, L M, Gwinn, M, DeBoy, R T, Madpu, R, Daugherty, S C, Durkin, A S, Haft, D H, Nelson, W C, Peterson, J D, Pop, M, Khouri, H M, Radune, D, Benton, J L, Mahamoud, Y, Jiang, L, Hance, I R, Weldman, J F, Berry, K J, Plaut, R D, Wolf, A M, Watkins, K L, Nierman, W C, Hazen, A, Cline, R, Redmond, C, Thwaite, J E, White, O, Salzberg, S L, Thomason, B, Friedlander, A M, Koehler, T M, Hanna, P C, Kolsto, A-B, Fraser, C M, **423**, 81
  Genome sequence of *Bacillus cereus* and comparative analysis with *Bacillus anthracis*, *Letter to Nature*, Ivanova, N, Sorokin, A, Anderson, I, Galleron, N, Candelon, B, Kapatral, V, Bhattacharyya, A, Reznik, G, Mikhallova, N, Lapidus, A, Chu, L, Mazur, M, Goltsman, E, Larsen, N, D'Souza, M, Walunas, T, Grechkin, Y, Pusch, G, Haselkorn, R, Fonstein, M, Ehrlich, S D, Overbeek, R, Kyrpides, N, **423**, 87
  Impairment of dendritic cells and adaptive immunity by anthrax lethal toxin, *Letter to Nature*, Agrawal, A, Lingappa, J, Leppla, S H, Agrawal, S, Jabbar, A, Quinn, C, Pulendran, B, **424**, 329
Bacillus cereus, Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
  Genome sequence of *Bacillus cereus* and comparative analysis with *Bacillus anthracis*, *Letter to Nature*, Ivanova, N, Sorokin, A, Anderson, I, Galleron, N, Candelon, B, Kapatral, V, Bhattacharyya, A, Reznik, G, Mikhallova, N, Lapidus, A, Chu, L, Mazur, M, Goltsman, E, Larsen, N, D'Souza, M, Walunas, T, Grechkin, Y, Pusch, G, Haselkorn, R, Fonstein, M, Ehrlich, S D, Overbeek, R, Kyrpides, N, **423**, 87
Bacillus subtilis, Microbiology: Flab control, *News and views*, Heemels, M-T, **423**, 395
Bacillus thuringiensis, Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
  Pest resistance feared as farmers flout rules, *News*, Clarke, T, **424**, 116
backtracking, Backtracking by single RNA polymerase molecules observed at near-base-pair resolution, *Letter to Nature*, Shaevitz, J W, Abbondanzieri, E A, Landick, R, Block, S M, **426**, 684
bacteria, Bacteria researcher plagued by fallout from security scare, *News in brief*, **421**, 306
  Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium, *Letter to Nature*, Bunge, M, Adrian, L, Kraus, A, Opel, M, Lorenz, W G, Andreesen, J R, Görlsch, H, Lechner, U, **421**, 357
  Nitrogen cycle: Solution to a marine mystery, *News and views*, Devol, A H, **422**, 575
  N$_2$ production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica, *Letter to Nature*, Dalsgaard, T, Canfield, D E, Petersen, J, Thamdrup, B, Acuña-González, J, **422**, 606
  Anaerobic ammonium oxidation by anammox bacteria in the Black Sea, *Letter to Nature*, Kuypers, M M M, Sliekers, A O, Lavik, G, Schmid, M, Jorgensen, B B, Kuenen, J G, Sinninghe Damste, J S, Strous, M, Jetten, M S M, **422**, 608
  Plant biology: Mutual sanctions, *News and views*, Sprent, J, **422**, 672
  Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis, *Letter to Nature*, Lodwig, E M, Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S, **422**, 722
  Life's transistors, *News and views*, Sigworth, F J, **423**, 21
  Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
  The genome sequence of *Bacillus anthracis* Ames and comparison to closely relates bacteria, *Letter to Nature*, Read, T D, Peterson, S N, Tourasse, N, Baillie, L W, Paulsen, I T, Nelson, K E, Tettelin, H, Fouts, D E, Eisen, J A, Gill, S R, Holtzapple, E K, Okstad, O A, Helgason, E, Rilstone, J, Wu, M, Kolonay, J F, Beanan, M J, Dodson, R J, Binkac, L M, Gwinn, M, DeBoy, R T, Madpu, R, Daugherty, S C, Durkin, A S, Haft, D H, Nelson, W C, Peterson, J D, Pop, M, Khouri, H M, Radune, D, Benton, J L, Mahamoud, Y, Jiang, L, Hance, I R, Weldman, J F, Berry, K J, Plaut, R D, Wolf, A M, Watkins, K L, Nierman, W C, Hazen, A, Cline, R, Redmond, C, Thwaite, J E, White, O, Salzberg, S L, Thomason, B, Friedlander, A M, Koehler, T M, Hanna, P C, Kolsto, A-B, Fraser, C M, **423**, 81
  Genome sequence of *Bacillus cereus* and comparative analysis with *Bacillus anthracis*, *Letter to Nature*, Ivanova, N, Sorokin, A, Anderson, I, Galleron, N, Candelon, B, Kapatral, V, Bhattacharyya, A, Reznik, G, Mikhallova, N, Lapidus, A, Chu, L, Mazur, M, Goltsman, E, Larsen, N, D'Souza, M, Walunas, T, Grechkin, Y, Pusch, G, Haselkorn, R, Fonstein, M, Ehrlich, S D, Overbeek, R, Kyrpides, N, **423**, 87
  Computational biology: Biosensor design, *News and views*, DeGrado, W F, **423**, 132
  Pathogenic bacteria attach to human fibronectin through a tandem β-zipper, *Letter to Nature*, Schwarz-Linek, U, Werner, J M, Pickford, A R, Gurusiddappa, S, Kim, J H, Pilka, E S, Briggs, J A G, Gough, T S, Höök, M, Campbell, I D, Potts, J R, **423**, 177
  Corrigendum: Fungus-growing ants use antibiotic-producing bacteria to control garden parasites, *Letter to Nature*, Currie, C R, Scott, J A, Summerbell, R C, Malloch, D, **423**, 461
  Gut reaction, *News feature*, Whitfield, J, **423**, 583
  Discovery changes view of bacteria, *News*, Knight, J, **423**, 909
  Immunology: Hide and seek, *News and views*, Heemels, M-T, **424**, 31
  Sex Wars: Genes, Bacteria, and Biased Sex Ratios, Majerus, M E N, *Book review by* Arnqvist, G, **424**, 616
  Evolution of cooperation and conflict in experimental bacterial populations, *Letter to Nature*, Rainey, P B, Rainey, K, **425**, 72
  Evolution of novel cooperative swarming in the bacterium *Myxococcus xanthus*, *Letter to Nature*, Velicer, G J, Yu, Y-t N, **425**, 75
  Inferring the palaeoenvironment of ancient bacteria on the basis of resurrected proteins, *Letter to Nature*, Gaucher, E A, Thomson, J M, Burgan, M F, Benner, S A, **425**, 285
  Staphylocoagulase is a prototype for the mechanism of cofactor-induced zymogen activation, *Letter to Nature*, Friedrich, R, Panizzi, P, Fuentes-Prior, P, Richter, K, Verhamme, I, Anderson, P J, Kawabata, S-I, Huber, R, Bode, W, Bock, P E, **425**, 535
  Mineralogy: Oresome microbes, *News and views*, Ball, P, **425**, 573
  Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases, *Article*, Radutoiu, S, Madsen, L H, Madsen, E B, Felle, H H, Umehara, Y, Gronlund, M, Sato, S, Nakamura, Y, Tabata, S, Sandal, N, Stougaard, J, **425**, 585
  Microbiology: Destructive approach, *News and views*, Tromans, A, **426**, 23
  A genetic basis for *Pseudomonas aeruginosa* biofilm antibiotic resistance, *Letter to Nature*, Mah, T-F, Pitts, B, Pellock, B, Walker, G C, Stewart, P S, O'Toole, G A, **426**, 306
bacteria, anaerobic, Detoxification on vinyl chloride to ethene coupled to growth of an anaerobic bacterium, *Letter to Nature*, He, J, Ritalahti, K M, Yang, K-L, Koenigsberg, S S, Löffler, F E, **424**, 62
bacteria, communication, Tiny teamwork, *Concepts*, Greenberg, E P, **424**, 134
bacteria, flagellae, Biomechanics: Bacterial flagellar switching under load, *Brief communication*, Fahrner, K A, Ryu, W S, Berg, H C, **423**, 938
bacteria, flagellar filament, Complete atomic model of the bacterial flagellar filament by electron cryomicroscopy, *Article*, Yonekura, K, Makl-Yonekura, S, Namba, K, **424**, 643
bacteria, membrane, Evolutionary conservation of biogenesis of β-barrel membrane proteins, *Letter to Nature*, Paschen, S A, Waizenegger, T, Stan, T, Preuss, M, Cyrklaff, M, Hell, K, Rapaport, D, Neupert, W, **426**, 862
bacteria, resistant, Europe launches attack on bacterial resistance, *News in brief*, **426**, 488
bacteria, riboswitches, Gene regulation: RNA switches, *News and views*, Pilcher, H R, **423**, 702
bacterial artificial chromosomes, BAC-to-BAC images of the brain, *News and views*, Zoghbi, H Y, **425**, 907
  A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917
bacterial organelles, Discovery changes view of bacteria, *News*, Knight, J, **423**, 909
bacteriophages, Bacterial photosynthesis genes in a virus, *Brief communication*, Mann, N H, Cook, A, Millard, A, Bailey, S, Clokie, M, **424**, 741
BAD protein, Cell biology: Metabolism meets death, *News and views*, Downward, J, **424**, 896
  BAD and glucokinase reside in a mitochondrial complex that integrates glycolysis and apoptosis, *Letter to Nature*, Danial, N N, Gramm, C F, Scorrano, L, Zhang, C-Y, Krauss, S, Ranger, A M, Datta, S R, Greenberg, M E, Licklider, L J, Lowell, B B, Gygi, S P, Korsmeyer, S J, **424**, 952
badgers, Disease spread leads Britain to pull plug on trial badger cull, *News*, Giles, J, **426**, 4
  Ecology: Badger cull culled, *News and views*, Roper, T J, **426**, 782
  Impact of localized badger culling on tuberculosis incidence in British cattle, *Letter to Nature*, Donnelly, C A, Woodroffe, R, Cox, D R, Bourne, J, Gettinby, G, Le Fevre, A M, McInerney, J P, Morrison, W I, **426**, 834
BAFF-R protein, Ligand-receptor binding revealed by the TNF family member TALL-1, *Article*, Liu, Y, Hong, X, Kappler, J, Jiang, L, Zhang, R, Xu, L, Pan, C-H, Martin, W E, Murphy, R C, Shu, H-B, Dai, S, Zhang, G, **423**, 49
Baffin Island, High ^{3}He/^{4}He ratios in picritic basalts from Baffin Island and the role of a mixed reservoir in mantle plumes, *Letter to Nature*, Stuart, F M, Lass-Evans, S, Fitton, J G, Ellam, R M, **424**, 57
Bahcall, John, Hunts for neutrinos and hominids pay off, *News in brief*, **422**, 366
balance hypothesis, Dosage sensitivity and the evolution of gene families in yeast, *Letter to Nature*, Papp, B, Pál, C, Hurst, L D, **424**, 194
Baldwin effect, Evolution and Learning: The Baldwin Effect Reconsidered, Weber, B H, Depew, D J, *Book review by* Laland, K N, **425**, 345
baleen whales, Whale of a catch blows hole in family tree, *News*, Cyranoski, D, **426**, 219
  A newly discovered species of living baleen whale, *Letter to Nature*, Wada, S, Oishi, M, Yamada, T K, **426**, 278
ball games, Psychophysics: How fielders arrive in time to catch the ball, *Brief communication*, McLeod, P, Reed, N, Dienes, Z, **426**, 244
ball lightning, Atomic physics: Squishy ball lightning, *News and views*, Ball, P, **425**, 253
ballistic magnetoresistance, Magnetic effect sends physicists into a spin, *News*, Brumfiel, G, **426**, 110
balloons, Fair play for trial balloons, *Editorial*, **421**, 299
  Up, up and away, *News feature*, Reichhardt, T, **421**, 308
  Long-haul balloon makes more of a splash than planned, *News in brief*, **422**, 366
  Heads in the clouds, *News in brief*, **424**, 8
bananas, Novel and conventional paths to a better banana, *Correspondence*, Jones, D, **421**, 889
bandgap, Low-loss hollow-core silica/air photonic bandgap fibre, *Letter to Nature*, Smith, C M, Venkataraman, N, Gallagher, M T, Müller, D, West, J A, Borrelli, N F, Allan, D C, Koch, K W, **424**, 657
Bangladesh, Delta blues, *News feature*, Clarke, T, **422**, 254
Banksia hookeriana, Plant biology: Blooming extension at the roadside, *News and views*, Fletcher, P, **424**, 31
Banksia prionotes, Plant biology: Blooming extension at the roadside, *News and views*, Fletcher, P, **424**, 31
Barbary macaques, Primatologist rocks Gibraltar by quitting over macaque cull, *News*, Schiermeier, Q, **426**, 111
Bardeen–Cooper–Schrieffer model, Magnetic enhancement of superconductivity from electron spin domains, *Letter to Nature*, Radovan, H A, Fortune, N A, Murphy, T P, Hannahs, S T, Palm, E C, Tozer, S W, Hall, D, **425**, 51
  Emergence of a molecular Bose-Einstein condensate from a Fermi gas, *Letter to Nature*, Greiner, M, Regal, C A, Jin, D S, **426**, 537
Bardet–Biedl syndrome, Basal body dysfunction is a likely cause of pleiotropic Bardet–Biedl syndrome, *Letter to Nature*, Ansley, S J, Badano, J L, Blacque, O E, Hill, J, Hoskins, B E, Leitch, C C, Kim, J C, Ross, A J, Eichers, E R, Teslovich, T M, Mah, A K, Johnsen, R C, Cavender, J C, Lewis, R A, Leroux, M R, Beales, P L, Katsanis, N, **425**, 628
baroplastics, Low-temperature processing of 'baroplastics' by pressure-induced flow, *Letter to Nature*, Gonzalez-Leon, J A, Acar, M H, Ryu, S-W, Ruzette, A-V G, Mayes, A M, **426**, 424

β-barrel membrane proteins, Evolutionary conservation of biogenesis of β-barrel membrane proteins, *Letter to Nature*, Paschen, S A, Waizenegger, T, Stan, T, Preuss, M, Cyrklaff, M, Hell, K, Rapaport, D, Neupert, W, **426**, 862

baryons, Astronomy: Hot gas around the Galaxy, *News and views*, Sternberg, A, **421**, 708
  The far-ultraviolet signature of the 'missing' baryons in the Local Group of Galaxies, *Letter to Nature*, Nicastro, F, Zezas, A, Elvis, M, Mathur, S, Flore, F, Cecchi-Pestellini, C, Burke, D, Drake, J, Casella, P, **421**, 719
  Particle physics: Strange days, *News and views*, Close, F, **424**, 376

basal ganglia, Opposing basal ganglia processes shape midbrain visuomotor activity bilaterally, *Letter to Nature*, Jiang, H, Stein, B E, McHaffie, J G, **423**, 982

basalt, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley. S F, Buhre, S, Jacob, D E, **421**, 249
  The importance of water to oceanic mantle melting regimes, *Article*, Asimow, P D, Langmuir, C H, **421**, 815
  Earth science: Subduction the hard way, *News and views*, Wright, A, **423**, 24

basaltic glasses, A discontinuity in mantle composition beneath the southwest Indian ridge, *Letter to Nature*, Meyzen, C M, Toplis, M J, Humler, E, Ludden, J N, Mevel, C, **421**, 731

basalts, Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618
  A discontinuity in mantle composition beneath the southwest Indian ridge, *Letter to Nature*, Meyzen, C M, Toplis, M J, Humler, E, Ludden, J N, Mevel, C, **421**, 731
  High ^{3}He/^{4}He ratios in picritic basalts from Baffin Island and the role of a mixed reservoir in mantle plumes, *Letter to Nature*, Stuart, F M, Lass-Evans, S, Fitton, J G, Ellam, R M, **424**, 57

baseball, Physicists doubt that 'corking' could help baseball's big hitter, *News*, Brumfiel, G, **423**, 674

basement membrane, Complex between nidogen and laminin fragments reveals a paradigmatic β-propeller interface, *Letter to Nature*, Takagi, J, Yang, Y, Liu, J-h, Wang, J-h, Springer, T A, **424**, 969

basic science, Science, Not Art: Ten Scientists' Diaries, Turney, J, *Book review by* Rothwell, N, Blagbrough, S, **425**, 902

Bassler, Bonnie, In the spotlight — Bonnie Bassler, *Lifelines*, **424**, 256

bathymetry, Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618
  Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge, *Letter to Nature*, Jokat, W, Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J, **423**, 962

bats, Ecology: News of Chews, *News and views*, Whitfield, J, **423**, 134
  Strong population substructure is correlated with morphology and ecology in a migratory bat, *Letter to Nature*, Miller-Butterworth, C M, Jacobs, D S, Harley, E H, **424**, 187
  Ultraviolet vision in a bat, *Letter to Nature*, Winter, Y, Lopez, J, von Helversen, O, **425**, 612

batteries, Electrochemistry: Magnesium power, *News and views*, Ball, P, **423**, 30
  Lithium-ion batteries: Runaway risk of forming toxic compounds, *Brief communication*, Hammami, A, Raymond, N, Armand, M, **424**, 635
  Water batteries make a splash in electric field, *News in brief*, **425**, 757

Bax protein, Humanin peptide suppresses apoptosis by interfering with Bax activation, *Letter to Nature*, Guo, B, Zhai, D, Cabezas, E, Welsh, K, Nouraini, S, Satterthwait, A C, Reed, J C, **423**, 456

BBS8, Basal body dysfunction is a likely cause of pleiotropic Bardet–Biedl syndrome, *Letter to Nature*, Ansley, S J, Badano, J L, Blacque, O E, Hill, J, Hoskins, B E, Leitch, C C, Kim, J C, Ross, A J, Eichers, E R, Teslovich, T M, Mah, A K, Johnsen, R C, Cavender, J C, Lewis, R A, Leroux, M R, Beales, P L, Katsanis, N, **425**, 628

BCMA protein, Ligand-receptor binding revealed by the TNF family member TALL-1, *Article*, Liu, Y, Hong, X, Kappler, J, Jiang, L, Zhang, R, Xu, L, Pan, C-H, Martin, W E, Murphy, R C, Shu, H-B, Dai, S, Zhang, G, **423**, 49

beaches, cleaning, How to clean a beach, *News feature*, Whitfield, J, **422**, 464
  Spanish oil company has Prestige clean-up operation in the bag, *News in brief*, **422**, 552

Beadle, George, George Beadle, and Uncommon Farmer: The Emergence of Genetics in the 20th Century, Berg, P, Singer, M, *Book review by* Müller-Hill, B, **426**, 122

Beagle 2 spacecraft, Mars attracts!, *News feature*, Giles, J, **423**, 473
  Fantastic journeys, *News feature*, **423**, 474
  Are you on board?, *News feature*, Butler, D, **423**, 476

bears, Grizzly end for environmentalists' bear project, *News in brief*, **424**, 716

beauty, Meeting aims to find brain's benchmarks for beauty, *News*, Knight, J, **421**, 305

beauty products, Drugs are for beauty too, *Opinion*, **424**, 981
  In the eye of the beholder, *News feature*, Pearson, H, **424**, 990

bee-keeping, Hive beetle causes a buzz in Europe, *News*, Graf, P, **423**, 793

bees, Animal behaviour: How self-organization evolves, *News and views*, Visscher, P K, **421**, 799
  Form and Function in the Honey Bee, Goodman, L, *Book review by* Seeley, T D, **424**, 372
  Psychophysics: Bees trade off foraging speed for accuracy, *Brief communication*, Chittka, L, Dyer, A G, Bock, F, Dornhaus, A, **424**, 388

beetles, The genes *orthodenticle* and *hunchback* substitute for *bicoid* in the beetle *Tribolium*, *Letter to Nature*, Schroder, R, **422**, 621
  Hive beetle causes a buzz in Europe, *News*, Graf, P, **423**, 793
  Insect orientation to polarized moonlight, *Brief communication*, Dacke, M, Nilsson, D-E, Scholtz, C H, Byrne, M, Warrant, E J, **424**, 33
  Heat reward for insect pollinators, *Brief communication*, Seymour, R S, White, C R, Gibernau, M, **426**, 243
  Structural colour: Opal analogue discovered in a weevil, *Brief communication*, Parker, A R, Welch, V L, Driver, D, Martini, N, **426**, 786

behaviour, Insect behaviour: Motion camouflage in dragonflies, *Brief communication*, Mizutani, A, Chahl, J S, Srinivasan, M V, **423**, 604
  Size and growth modification on clownfish, *Brief communication*, Buston, P, **424**, 145
  Monkeys reject unequal pay, *Letter to Nature*, Brosnan, S F, de Waal, F B M, **425**, 297
  Environmentally mediated synergy between perception and behaviour in mobile robots, *Letter to Nature*, Verschure, P F M J, Voegtlin, T, Douglas, R J, **425**, 620

behavioural ecology, Behavioural ecology: Coots count, *News and views*, Andersson, M, **422**, 483
  Behavioural ecology: Fresh on the tang of citrus, *News and views*, Whitfield, J, **423**, 395
  Behavioural ecology: Father knows best, *News and views*, Sherman, P W, Neff, B D, **425**, 136
  True paternal care in a multi-male primate society, *Letter to Nature*, Buchan, J C, Alberts, S C, Silk, J B, Altmann, J, **425**, 179
  Behavioural ecology: Horns and lifestyle, *News and views*, Whitfield, J, **425**, 253

behavioural genetics, Behavioural genetics: Family matters, *News and views*, Haig, D, **421**, 491

behavioural science, Behavioural science: Fair's fair, *News and views*, Bewley, T, **422**, 125
  Detrimental effects of sanctions on human altruism, *Article*, Fehr, E, Rockenbach, B, **422**, 137

behaviourism, Nature via Nurture: Genes, Experience and What Makes Us Human, Ridley, M, *Book review by* Berry, A, **422**, 814

Belarus, Belarus seeks compensation for poached scientists, *News in brief*, **421**, 6

Bell Laboratories, More papers fall foul of Schön injury, *News in brief*, **421**, 6

bells, Acoustics: New bells ring sweeter, *News and views*, Ball, P, **424**, 265

Bell's inequalities, Violation of a Bell-like inequality in single-neutron interferometry, *Letter to Nature*, Hasegawa, Y, Loidl, R, Badurek, G, Baron, M, Rauch, H, **425**, 45

Belousov-Zhabotinsky reaction, Biomimetics: Gels got rhythm, *News and views*, Daw, R, **422**, 132

bend-faulting, Bending-related faulting and mantle serpentinization at the Middle America trench, *Article*, Ranero, C R, Phipps Morgan, J, McIntosh, K, Reichert, C, **425**, 367

Bepi Colombo satellite, Japan joins Europe's bid to get Bepi Colombo to Mercury, *News in brief*, **424**, 8

BeppoSAX satellite, Mind your heads!, *News in brief*, **422**, 462

Berg, Jeremy, Biophysicist named to run basic-research arm of NIH, *News*, Check, E, **424**, 984

Beringia, Ice-age steppe vegetation in east Beringia, *Brief communication*, Zazula, G D, Froese, D G, Schweger, C E, Mathewes, R W, Beaudoin, A B, Telka, A M, Harington, C R, Westgate, J A, **423**, 603

Bianco, Lucio, Italian research chief jumps ship as reorganization looms, *News in brief*, **423**, 374

biblical history, Radiometric dating of the Siloam Tunnel, Jerusalem, *Letter to Nature*, Frumkin, A, Shimron, A, Rosenbaum, J, **425**, 169

bibliometric data, Journals: impact factors are too highly valued, *Correspondence*, Davies, J, **421**, 210
  Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803
  Copied citations give impact factors a boost, *News*, Clarke, T, **423**, 373
  Challenging the tyranny of impact factors, *Correspondence*, Colquhoun, D, **423**, 479
  Impact factors aren't top journals' sole attraction, *Correspondence*, Törnqvist, T E, **423**, 480
  Impact factors: target the funding bodies, *Correspondence*, Insall, R, **423**, 585
  Online comment could promote unfair criticism, *Correspondence*, Lumsden, A, Raff, M, Sanes, J R, **423**, 918
  Impact factors: a tool of the sterile audit culture, *Correspondence*, Tuck, A, **424**, 14
  Impact factors: letting everyone have their say, *Correspondence*, Cobb, M, **424**, 487
  Impact factors reward and promote excellence, *Correspondence*, Lomnicki, A, **424**, 487
  Impact factors: just part of a research treadmill, *Correspondence*, de Meis, L, do Carmo, M S, de Meis, C, **424**, 723
  How do impact factors relate to the real world?, *Correspondence*, Skorka, P, **425**, 661
  Citation rate unrelated to journals' impact factor, *Correspondence*, Waheed, A A, **426**, 495

biceps, A catapult action for rapid limb protraction, *Brief communication*, Wilson, A M, Watson, J C, Lichtwark, G A, **421**, 35

bicoid, The genes *orthodenticle* and *hunchback* substitute for *bicoid* in the beetle *Tribolium*, *Letter to Nature*, Schroder, R, **422**, 621

Big Bang theory, Cosmology: The helium legacy of dead stars, *News and views*, Ball, P, **422**, 275
  Low-mass relics of early star formation, *Letter to Nature*, Schneider, R, Ferrara, A, Salvaterra, R, Omukai, K, Bromm, V, **422**, 869
  Freedom evolves, Dennett, D, *Book review by* Konner, M, **423**, 17
  Astronomy: Elements of surprise, *News and views*, Cowan, J, **423**, 29
  Echo of the big bang, Lemonick, M, *Book review by* Carroll, S, **424**, 373
  Dodecahedral space topology as an explanation for weak wide-angle temperature correlations in the cosmic microwave background, *Letter to Nature*, Luminet, J-P, Weeks, J R, Riazuelo, A, Lehoucq, R, Uzan, J-P, **425**, 593
  The Big Splat: or How Our Moon Came to Be, Mackenzie, D, *Book review by* Burns, J A, **425**, 664

Big Mac, Big Mac team serves up cheap supercomputer, *News in brief*, **425**, 652

big science, Connecting Quarks With the Cosmos: Eleven Science Questions for the New Century, Committee on the Physics of the Universe, National Research Council of the National Academics, *Book review by* Rees, M, **425**, 239

Bihain, Bernard, Tribunal clears obesity researcher of fraud, *News*, Butler, D, **424**, 6

Bill & Melinda Gates Foundation, Diagnostic drive aims to combat killer diseases, *News in brief*, **423**, 472
  Gates steps up war on malaria with donation of $168 million, *News*, Butler, D, **425**, 331
  Filling the gap between knowing and doing, *Correspondence*, Pang, T, **426**, 383

binary stars, An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system, *Letter to Nature*, Burgay, M, D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R, **426**, 531

binary switches, Binary switches and modification cassettes in histone biology and beyond, *Hypothesis*, Fischle, W, Wang, Y, Allis, C D, **425**, 475

bindin, Reproduction: Being compatible, *News and views*, Pilcher, H R, **425**, 678

binocular vision, Neurobiology: The eyes have it, *News and views*, Tromans, A, **425**, 143

bio-photonics, Surface plasmon subwavelengths optics, *Insight review article*, Barnes, W L, Dereux, A, Ebbesen, T W, **424**, 824

biobugs, NASA seeks inspiration from microscopic views of life, *News*, Knight, J, **421**, 878

biochemistry, Nutrional biochemistry: A new redox-cofactor vitamin for mammals, *Brief communication*, Kasahara, T, Kato, T, **422**, 832
  Traditional values for transatlantic venture, *News in brief*, **424**, 716

biodefence, Harvard team suggests route to better bioterror alerts, *News*, Knight, J, **421**, 564
  Science feels the pinch as Bush budget targets defence, *News*, Brumfiel, G, Hoag, H, **421**, 565
  Statement on the consideration of biodefence and biosecurity, *Editorial*, **421**, 771
  Biodefence of the research agenda, *Commentary*, Fauci, A S, **421**, 787
  Biodefence plans earn lukewarm response from US academics, *News*, Check, E, **422**, 245
  There are two sides to biodefence, *Opinion*, **422**, 545
  Biotech firms pin hopes on defence, *News*, Pearson, H, **422**, 790
  Arizona institute names leader, *News*, Dalton, R, **423**, 6
  Homeland science chief wants quick fixes, *News*, Check, E, **423**, 106
  Biodefence takes its toll, *Opinion*, **423**, 571
  Peers rally in support of accused scientist, *News*, Check, E, **425**, 5
  US selects regional biodefence hubs, *News*, Dalton, R, **425**, 110
  Top lab contracts awarded as US battles deadly bugs, *News in brief*, **425**, 552
  Plague trial verdict leaves biologists split on biodefence, *News*, Check, E, **426**, 593
  Boom, or bust?, *News feature*, Check, E, **426**, 598

biodegradation, Biological activity in the deep subsurface and the origin of heavy oil, *Insight review article*, Head, I M, Jones, D M, Larter, S R, **426**, 344

biodiversity, Biodiversity, Sustainability and Human Communities: Protecting Beyond the Protected, O'Riordan, T, Stoll-Kleemann, S, *Book review by* Child, B, **421**, 113
  Biodiversity: The threat of small households, *News and views*, Keilman, N, **421**, 489
  Effects of household dynamics on resource consumption and biodiversity, *Letter to Nature*, Liu, J, Daily, G C, Ehrlich, P R, Luck, G W, **421**, 530
  Switzerland's role as a hotspot of type specimens, *Correspondence*, Agosti, D, **421**, 889
  Ecology: The how and why of biodiversity, *News and views*, Gaston, K J, **421**, 900
  Patterns and processes in reef fish diversity, *Letter to Nature*, Mora, C, Chittaro, P M, Sale, P F, Kritzer, J P, Ludsin, S A, **421**, 933
  Danish study hints at biodiversity boost from transgenic crops, *News in brief*, **422**, 250
  Explaining the excess of rare species in natural species abundance distributions, *Letter to Nature*, Magurran, A E, Henderson, P A, **422**, 714
  A test of the unified neutral theory of biodiversity, *Letter to Nature*, McGill, B J, **422**, 881

Parallel extinction risk and global distribution of languages and species, *Letter to Nature*, Sutherland, W J, **423**, 276
Field sports and conservation in the United Kingdom, *Letter to Nature*, Oldfield, T E E, Smith, R J, Harrop, S R, Leader-Williams, N, **423**, 531
Stability of forest biodiversity, *Letter to Nature*, Clark, J S, McLachlan, J S, **423**, 635
Evolution: The battle between the sexes, *News and views*, Tregenza, T, **423**, 929
Malaysia puts biovalley under wraps, *News*, Cyranoski, D, **424**, 118
Ants join online colony to boost conservation efforts, *News*, Dalton, R, **424**, 242
UK experts map out route to licensing transgenic crops, *News*, Giles, J, **424**, 358
Catastrophic extinctions follow deforestation in Singapore, *Letter to Nature*, Brook, B W, Sodhi, N S, Ng, P K L, **424**, 420
Productivity-biodiversity relationships depend on the history of community assembly, *Letter to Nature*, Fukami, T, Morin, P J, **424**, 423
Conservation plans stymied by inadequate data, *News in brief*, **425**, 8
Mixed results for conservation efforts leave species dying, *News in brief*, **425**, 230
Patterns of predation in a diverse predator–prey system, *Letter to Nature*, Sinclair, A R E, Mduma, S, Brashares, J S, **425**, 288
Biodiversity schemes take root in China, *News*, Cyranoski, D, **425**, 890
Conservation: Model distributions, *News and views*, Whitfield, J, **425**, 914
Governance and the loss of biodiversity, *Letter to Nature*, Smith, R J, Muir, R D J, Walpole, M J, Balmford, A, Leader-Williams, N, **426**, 67
Predicting distributions of known and unknown reptile species in Madagascar, *Letter to Nature*, Raxworthy, C J, Martinez-Meyer, E, Horning, N, Nussbaum, R A, Schneider, G E, Ortega-Huerta, M A, Peterson, A T, **426**, 837
bioenergetics, Metabolism: Ecology shapes bird bioenergetics, *Brief communication*, McNab, B K, **426**, 620
BioEngineered Autologous Tissue (**BEAT**), The beat goes on, *News feature*, Zandonella, C, **421**, 884
bioethics, Time for bioethics and business to start talking, *Correspondence*, Dhanda, R K, **421**, 573
Vigilance is vital to avoid conflicts of interest, *Correspondence*, MacDonald, C, **422**, 469
A vision for the future of genomics research, *Feature*, Collins, F S, Green, E D, Guttmacher, A E, Guyer, M S, **422**, 835
Europe split over move to loosen stem-cell regulations, *News*, Abbott, A, **424**, 117
Are China's bioethics under control?, *News*, Cyranoski, D, **424**, 239
Science and ethics must not be separated, *Correspondence*, Copland, P, **425**, 121
Bioethics: role of religion cannot be ignored, *Correspondence*, McSorley, S J, **425**, 763
Bioethics needs a distinct voice if it is to aid science, *Correspondence*, Lawen, A, **425**, 763
biofilms, Tiny teamwork, *Concepts*, Greenberg, E P, **424**, 134
A genetic basis for *Pseudomonas aeruginosa* biofilm antibiotic resistance, *Letter to Nature*, Mah, T-F, Pitts, B, Pellock, B, Walker, G C, Stewart, P S, O'Toole, G A, **426**, 306
Contributions of microbial biofilms to ecosystem processes in stream mesocosms, *Letter to Nature*, Battin, T J, Kaplan, L A, Newbold, J D, Hansen, C M E, **426**, 439
biogeochemistry, Biogeochemistry: Heavy metal out of air, *News and views*, Lincoln, T, **423**, 395
Biogeochemistry: Ancient oceans and oxygen, *News and views*, Hurtgen, M T, **423**, 592
biogeography, Single of origin of Malagasy Carnivora from an African ancestor, *Letter to Nature*, Yoder, A D, Burns, M M, Zehr, S, Delefosse, T, Veron, G, Goodman, S M, Flynn, J J, **421**, 734
Patterns and processes in reef fish diversity, *Letter to Nature*, Mora, C, Chittaro, P M, Sale, P F, Kritzer, J P, Ludsin, S A, **421**, 933
A fly in the biogeographic ointment, *Brief communication*, Ashworth, A C, Thompson, F C, **423**, 135
Neutral theory and relative species abundance in ecology, *Letter to Nature*, Volkov, I, Banavar, J R, Hubbell, S P, Martian, A, **424**, 1035
The coelacanth of frogs, *News and views*, Hedges, S B, **425**, 669
New frog family from India reveals an ancient biogeographical link with the Seychelles, *Letter to Nature*, Biju, S D, Bossuyt, F, **425**, 711
A magnificent seven, *News and views*, Lincoln, T, **426**, 773
biographies, Cécile and Oskar Vogt: The Visionaries of Modern Neuroscience, Klatzo, I, Zu Rhein, G, *Book review by* Jones, E G, **421**, 19
Darwin and Barnacle, Stott, R, *Book review by* Schram, F R, **422**, 472
Wandering in the Gardens of the Mind: Peter Mitchell and the Making of Glynn, Prebble, J, Weber, B, *Book review by* Slater, E C, **422**, 816
Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II, Surgenor, D M, *Book review by* Tanford, C, Reynolds, J, **423**, 224
London's Leonardo: The Life and Work of Robert Hooke, Bennett, J, Cooper, M, Hunter, M, Jardine, L, *Book review by* Oldroyd, D R, **423**, 384
The Man Who Flattened the Earth: Maupertuis and the Sciences in the Enlightenment, Terrall, M, *Book review by* Shapin, S, **423**, 482
Hewett Cottrell Watson: Victorian Plant Ecologist and Evolutionist, Egerton, F N, *Book review by* Bellon, R, **423**, 589
The Man Who Found Time: James Hutton and the Discovery of the Earth's Antiquity, Repcheck, J, *Book review by* Oldroyd, D R, **423**, 920
The Oxford Companion to the History of Modern Science, Heilbron, J L, *Book review by* Huxtable, R J, **424**, 17
Science as Autobiography: The Troubled Life of Niels Jerne, Soderqvist, T, *Book review by* Nossal, G J V, **424**, 253
Volta: Science and Culture in the Age of Enlightenment, Pancaldi, G, *Book review by* Fregonese, L, **424**, 999
The Man Who Changed Everything: The Life of James Clerk Maxwell, *Book review*, Mahon, B, Maddox, J, **425**, 765
Prof: The Life of Frederick Lindemann, *Book review*, Fort, A, Young, S, **425**, 770
The Third Man of the Double Helix: The Autobiography of Maurice Wilkins, Wilkins, M, *Book review by* Gosling, R, **425**, 901
George Beadle, and Uncommon Farmer: The Emergence of Genetics in the 20th Century, Berg, P, Singer, M, *Book review by* Müller-Hill, B, **426**, 122
Audubon in Edinburgh: and his Scottish Associates, Chalmers, J, *Book review by* Knight, D, **426**, 767
Audubon's Elephant: The Story of John James Audubon's Epic Struggle to Publish The Birds of America, Hart-Davis, D, *Book review by* Knight, D, **426**, 767
bioinformatics, Biomedical informatics for proteomics, *Insight review article*, Boguski, M S, McIntosh, M W, **422**, 233
Progressing towards a biological names register, *Correspondence*, Patterson, D J, **422**, 661
Unrestricted free access works and must continue, *Correspondence*, Salzberg, S, Birney, E, Eddy, S, White, O, **422**, 801
A vision for the future of genomics research, *Feature*, Collins, F S, Green, E D, Guttmacher, A E, Guyer, M S, **422**, 835
biological clocks, Rhythmic histone acetylation underlies transcription in the mammalian circadian clock, *Letter to Nature*, Etchegaray, J-P, Lee, C, Wade, P A, Reppert, S M, **421**, 177
Adaptation of photoperiodic control pathways produces short-day flowering in rice, *Letter to Nature*, Hayama, R, Yokoi, S, Tamaki, S, Yano, M, Shimamoto, K, **422**, 719
Allometry: How reliable is the biological time clock?, *Brief communication*, Lopez-Urrutia, A, **424**, 269
Reply: Allometry: How reliable is the biological time clock?, *Brief communication*, Gillooly, J F, Charnov, E L, Brown, J H, Savage, V M, West, G B, **424**, 270
Chronobiology: Biological Timekeeping, Dunlap, J C, Loros, J J, DeCoursey, P J, *Book review by* Palmer, J, **425**, 346
Timing is everything, *Opinion*, **425**, 885
Restless nights, listless days, *News feature*, Abbott, A, **425**, 896
Gating of the rapid shade-avoidance response by the circadian clock in plants, *Letter to Nature*, Salter, M G, Franklin, K A, Whitelam, G C, **426**, 680
biological diversity, The coelacanth of frogs, *News and views*, Hedges, S B, **425**, 669
biological modelling, Tools for modelling biological processes, *Correspondence*, Keane, J, **421**, 573
biological oscillations, Obituary: Arthur T. Winfree (1942–2002), *News and views*, Glass, L, **421**, 34
biological research, Health chiefs poised to step up US scrutiny of microbe research, *News*, Check, E, **425**, 647
biological weapons, Law sends laboratories into pathogen panic, *News*, Check, E, **421**, 4
Agriculture shock, *News feature*, Gewin, V, **421**, 106
Bacteria researcher plagued by fallout from security scare, *News in brief*, **421**, 306
Harvard team suggests route to better bioterror alerts, *News*, Knight, J, **421**, 564
Work on 'non-lethal' weapons should be limited too, *Correspondence*, Singh, J A, **422**, 113
US debates future of Iraqi scientists, *News*, Check, E, **422**, 789
Lack of trust hampers hunt for weapons, *News*, Butler, D, **423**, 371
From red peril to red tape, *Opinion*, **423**, 669
Still out in the cold, *News feature*, Brumfiel, G, **423**, 678
US army attacked over published patent for 'bioweapons grenade', *News*, Check, E, **423**, 789
Bioweapons initiatives bogged down in talks, *News*, Check, E, **424**, 865
Health chiefs poised to step up US scrutiny of microbe research, *News*, Check, E, **425**, 647
In the shadow of fear, *News feature*, Brumfiel, G, Knight, J, **426**, 748
biological weapons, sensors, US Army plans assault on biotech frontline, *News in brief*, **422**, 106
Biological Weapons Convention, Bioweapons initiatives bogged down in talks, *News*, Check, E, **424**, 865
biology, Biology can be helpful to open-minded physicists, *Correspondence*, Li, G, **421**, 111
Wandering in the Gardens of the Mind: Peter Mitchell and the Making of Glynn, Prebble, J, Weber, B, *Book review by* Slater, E C, **422**, 816
Biologists disappointed as NIH budget falls flat, *News*, Check, E, **423**, 905
A revolution in optical manipulation, *Insight review article*, Grier, D G, **424**, 810
Photonics structures in biology, *Insight review article*, Vukusic, P, Sambles, J R, **424**, 852
Biology favoured in Japanese funding plan, *News in brief*, **425**, 9
Merger provides stronger voice for British biologists, *News in brief*, **425**, 230
Biologists join physics preprint club, *News*, Butler, D, **425**, 548
biology, synthetic, Act natural, *Concepts*, Benner, S A, **421**, 118
biolubrication, Lubrication by charged polymers, *Letter to Nature*, Raviv, U, Glasson, S, Kampf, N, Gohy, J-F, Jerome, R, Klein, J, **425**, 163
bioluminescence, Nasal bioluminescence in reindeer, *Rangifer tarandus rubens*, *Science in culture*, Kemp, M, **426**, 768
biomarkers, Disease proteomics, *Insight review article*, Hanash, S, **422**, 226
Written in blood, *Concepts*, Liotta, L A, Ferrari, M, Petricoin, E, **425**, 905
biomass, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28
Corrigendum: Invariant scaling relations across tree-dominated communities, *Letter to Nature*, Enquist, B J, Niklas, K J, **425**, 741
biomaterials, Biomaterials: Size matters, *News and views*, Ball, P, **423**, 238
Biomaterials: Take a break, *News and views*, Pilcher, H R, **424**, 507
Biomaterials: Zinc hardens worm jaws, *News and views*, Ball, P, **424**, 630
Biomaterials: Silk's secrets, *News and views*, Atkins, E, **424**, 1010
biomechanics, Biomechanics: With a swing, *News and views*, Whitfield, J, **422**, 829
Biomechanics: Bacterial flagellar switching under load, *Brief communication*, Fahrner, K A, Ryu, W S, Berg, H C, **423**, 938
Flying and swimming animals cruise at a Strouhal number tuned for high-power efficiency, *Letter to Nature*, Taylor, G K, Nudds, R L, Thomas, A L R, **425**, 707
Biomechanics: Early birds surmount steep slopes, *News and views*, Hutchinson, J R, **426**, 777
biomedical research, Fresh funding hike mooted for US biomedical research, *News in brief*, **422**, 462
Tapping the power of small institutions, *Commentary*, Keusch, G T, Medlin, C A, **422**, 561
Biologists disappointed as NIH budget falls flat, *News*, Check, E, **423**, 905
BioMedNet, Elsevier waves goodbye to BioMedNet web portal, *News*, Giles, J, **426**, 744
biomembranes, Imaging coexisting fluid domains I biomembrane models coupling curvature and line tension, *Letter to Nature*, Baumgart, T, Hess, S T, Webb, W W, **425**, 821
biomimetics, Biomimetics: Gels got rhythm, *News and views*, Daw, R, **422**, 132
BIOMOD, Conservation: Model distributions, *News and views*, Whitfield, J, **425**, 914
biophysics, Biophysics: Solution to haemoglobin's structural paradox, *News and views*, Surridge, C, **421**, 493
Biophysics: Unzipping your genes, *News and views*, Ball, P, **421**, 804
Biophysics: Symmetry by design, *News and views*, Ball, P, **424**, 31
Biophysicist named to run basic-research arm of NIH, *News*, Check, E, **424**, 984
Biophysics: Take the intracellular train, *News and views*, Helmer, M, **425**, 140
Biophysics: Cell mail delivered by light, *News and views*, Ball, P, **425**, 364
Biophysics: Is rhodopsin dimeric in native retinal rods?, *Brief communication*, Chabre, M, Cone, R, Saibil, H, **426**, 30
Reply: Biophysics: Is rhodopsin dimeric in native retinal rods?, *Brief communication*, Fotiadis, D, Liang, Y, Filipek, S, Saperstein, D A, Engel, A, Palczewski, K, **426**, 31
biopolymers, Molecular messages, *Concepts*, Szostak, J W, **423**, 689
Epoxidation of polybutadiene by a topologically linked catalyst, *Letter to Nature*, Thordarson, P, Bijsterveld, E J A, Rowan, A E, Nolte, R J M, **424**, 915
bioremediation, How to clean a beach, *News feature*, Whitfield, J, **422**, 464
biosafety, Pacific island tips balance in favour of biosafety protocol, *News in brief*, **423**, 794
Biosafety trials darken outlook for transgenic crops in Europe, *News*, Giles, J, **425**, 751
bioscience, UK considers plans to shake up clinical trials, *News*, Giles, J, **426**, 216
biosecurity, Statement on the consideration of biodefence and biosecurity, *Editorial*, **421**, 771
Journals tighten up on biosecurity, *News*, Check, E, **421**, 774
biosensors, Ultra-high-Q toroid microcavity on a chip, *Letter to Nature*, Armani, D K, Kippenberg, T J, Spillane, S M, Vahala, K J, **421**, 925
Computational biology: Biosensor design, *News and views*, DeGrado, W F, **423**, 132
Computational design of receptor and sensor proteins with novel functions, *Letter to Nature*, Looger, L L, Dwyer, M A, Smith, J J, Hellinga, H W, **423**, 185
Controlling anisotropic nanoparticle growth through plasmon excitation, *Letter to Nature*, Jin, R, Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A, **425**, 487
biosphere, Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere, Sterner, R W, Elser, J J, *Book review by* Schindler, D W, **423**, 225
Biosphere 2, Cash could dry up desert ecological experiment, *News in brief*, **421**, 466
Biosphere owner sues sponsor, *News*, Gewin, V, **422**, 461
biotechnology, Biotech critic tries to sew up research on chimaeras, *News*, Check, E, **421**, 4
Biotech joint venture flounders in wake of Syngenta's silence, *News in brief*, **421**, 6

Biologists seek blueprint for international stem-cell effort, *News*, Check, E, **421**, 102
Time for bioethics and business to start talking, *Correspondence*, Dhanda, R K, **421**, 573
Concern about Japan's unclear biotech regulations, *Correspondence*, Watanabe, K N, **421**, 689
Mixed results win HIV vaccine a guarded response, *News*, Hoag, H, **421**, 877
Plant biology: Mobile plastid genes, *News and views*, Maliga, P, **422**, 31
A little protectionism goes a long way, *Opinion*, **422**, 99
Biotech project in turmoil as Michigan balances books, *News*, Knight, J, **422**, 102
Tougher rules aim to prevent gene flow into crops, *News*, Hoag, H, **422**, 103
Danish biotech centre faces axe, *News*, Abbott, A, **422**, 105
US Army plans assault on biotech frontline, *News in brief*, **422**, 106
Against the grain, *News feature*, Macilwain, C, **422**, 111
Universities could gain from backing biotech, *Correspondence*, Kamb, A, **422**, 113
Biotech firms join charities in drive to help Africa's farms, *News*, Hoag, H, **422**, 246
Danish study hints at biodiversity boost from transgenic crops, *News in brief*, **422**, 250
Vigilance is vital to avoid conflicts of interest, *Correspondence*, MacDonald, C, **422**, 469
US debates future of Iraqi scientists, *News*, Check, E, **422**, 789
Biotech firms pin hopes on defence, *News*, Pearson, H, **422**, 790
Pre-genomics training hinders Indian biotech, *Correspondence*, Ranganath, R M, **422**, 802
Biotechnology industry plateaus out in Europe, *News in brief*, **423**, 108
Legal row looms for gene-map firm, *News*, Dalton, R, **423**, 470
Divisions sink US consensus effort on transgenic food, *News*, Knight, J, **423**, 574
A flight of fancy, *Opinion*, **423**, 903
Journals wrestle with definition of 'competing' interest, *News*, Knight, J, **423**, 908
Share slump brings biotech firms to government's door, *News*, Check, E, **423**, 908
Malaysia puts biovalley under wraps, *News*, Cyranoski, D, **424**, 118
DNA-chip firm backs down over upgrade, *News*, Whitfield, J, **424**, 119
Unnatural selection, *Concepts*, Snow, A, **424**, 619
Biotech headquarters hit by early morning pipe-bomb explosions, *News in brief*, **425**, 8
Universities armed with cash for biotechnology, *News in brief*, **425**, 9
Biotechnology at the bar, *News feature*, Nosengo, N, **425**, 116
An ethical dilemma, *Commentary*, Rose, H, **425**, 123
Flaws undermine results of UK biotech debate, *Correspondence*, Campbell, S, Townsend, E, **425**, 559
Florida welcomes Scripps as critics predict big-money flop, *News*, Dalton, R, **426**, 4
A continent divided, *News feature*, Masood, E, **426**, 224
Organic brewery ferments opposition to GM crops, *News in brief*, **426**, 488
Berkeley accused of biotech bias as ecologist is denied tenure, *News*, Dalton, R, **426**, 591
Scientists attack industrial influence, *News*, Knight, J, **426**, 741
What is there to fear from something so small, *News feature*, Giles, J, **426**, 750
Biotechnology Industry Organization, Share slump brings biotech firms to government's door, *News*, Check, E, **423**, 908
bioterrorism, Law sends laboratories into pathogen panic, *News*, Check, E, **421**, 4
US officials urge biologists to vet publications for bioterror risk, *News*, Check, E, **421**, 197
Bacteria researcher plagued by fallout from security scare, *News in brief*, **421**, 306
Harvard team suggests route to better bioterror alerts, *News*, Knight, J, **421**, 564
Statement on the consideration of biodefence and biosecurity, *Editorial*, **421**, 771
Biodefence of the research agenda, *Commentary*, Fauci, A S, **421**, 787
Poorly pets to provide early warning in war on bioterror, *News in brief*, **421**, 882
Biotech firms pin hopes on defence, *News*, Pearson, H, **422**, 790
Arizona institute names leader, *News*, Dalton, R, **423**, 6
Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
Impairment of dendritic cells and adaptive immunity by anthrax lethal toxin, *Letter to Nature*, Agrawal, A, Lingappa, J, Leppla, S H, Agrawal, S, Jabbar, A, Quinn, C, Pulendran, B, **424**, 329
Plant-disease experts blighted by red tape, *News*, Knight, J, **424**, 713
Bioweapons initiatives bogged down in talks, *News*, Check, E, **424**, 865
Peers rally in support of accused scientist, *News*, Check, E, **425**, 5
Science and the war on terror, *Opinion*, **425**, 107
US selects regional biodefence hubs, *News*, Dalton, R, **425**, 110
Top lab contracts awarded as US battles deadly bugs, *News in brief*, **425**, 552
Health chiefs poised to step up US scrutiny of microbe research, *News*, Check, E, **425**, 647
Immunology: Long gone, but not forgotten, *News and views*, Heemels, M-T, **426**, 402
In the shadow of fear, *News feature*, Brumfiel, G, Knight, J, **426**, 748
biotin, Biophysics: Take the intracellular train, *News and views*, Helmer, M, **425**, 140
bioweapons, *See* **biological weapons**
bipedalism, Human footprints in Pleistocene volcanic ash, *Brief communication*, Mietto, P, Avanzini, M, Rolandi, G, **422**, 133
bipolar disorder, The ups and downs of lithium, *News feature*, Pilcher, H R, **425**, 118
birds, Avian botulism clips wings of Taiwanese spoonbills, *News in brief*, **421**, 202
Erratum: An ultra-sparse code underlies the generation of neural sequences in a songbird, *Letter to Nature*, Hahnloser, R H R, Kozhevnikov, A A, Fee, M S, **421**, 294
The effect of aggressiveness on the population dynamics of a territorial bird, *Letter to Nature*, Mougeot, F, Redpath, S M, Leckie, F, Hudson, P J, **421**, 737
The Adelie Penguin: Bellwether of Climate Change, Ainley, D G, *Book review by* Le Maho, Y, Gremillet, D, **422**, 264
Egg recognition and counting reduce costs of avian conspecific brood parasitism, *Article*, Lyon, B E, **422**, 495
Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Griffith, S C, Montgomerie, R, **422**, 833
Reply: Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Blomqvist, D, Andersson, M, Kïpper, C, Cuthill, I C, Kis, J, Lanctot, R B, Sandercock, B K, Székely, T, Wallander, J, Kempenaers, B, **422**, 833
Human fatality adds fresh impetus to fight against bird flu, *News*, Abbott, A, **423**, 5
Parallel extinction risk and global distribution of languages and species, *Letter to Nature*, Sutherland, W J, **423**, 276
Speciation by host switch in brood parasitic indigobirds, *Letter to Nature*, Sorenson, M D, Sefc, K M, Payne, R B, **424**, 928
South Korea accused of leaving birds out to die in Wetland project, *News in brief*, **424**, 988
The Red Canary: The Story of the First Genetically Engineered Animal, *Book review*, Birkhead, T, Coyne, J A, **425**, 772
Audubon in Edinburgh: and his Scottish Associates, Chalmers, J, *Book review by* Knight, D, **426**, 767
Audubon's Elephant: The Story of John James Audubon's Epic Struggle to Publish The Birds of America, Hart-Davis, D, *Book review by* Knight, D, **426**, 767
birds, avian influenza, Vaccine sought as bird flu infects humans, *News*, Cyranoski, D, **422**, 6
birds, behaviour, Animal behaviour: Heredity and the bolder bird, *News and views*, Whitfield, J, **421**, 804
Behavioural ecology: Coots count, *News and views*, Andersson, M, **422**, 483
Avian behaviour: Altruism and infidelity among warblers, *Brief communication*, Richardson, D S, Komdeur, J, Burke, T, **422**, 580
Animal behaviour: Bowerbirds blues, *News and views*, Clarke, T, **424**, 507
birds, bioenergetics, Metabolism: Ecology shapes bird bioenergetics, *Brief communication*, McNab, B K, **426**, 620
birds, diet, Physiology: Fast food, *News and views*, Whitfield, J, **426**, 136
birds, evolution, Dinosaurs take to the air, *News and views*, Prum, R O, **421**, 323
Four-winged dinosaurs from China, *Article*, Xu, X, Zhou, Z, Wang, X, Kuang, X, Zhang, F, Du, X, **421**, 335
Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Griffith, S C, Montgomerie, R, **422**, 833
Reply: Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Blomqvist, D, Andersson, M, Kïpper, C, Cuthill, I C, Kis, J, Lanctot, R B, Sandercock, B K, Székely, T, Wallander, J, Kempenaers, B, **422**, 833
Evolution: Flowers to fit the bill, *News and views*, Whitfield, J, **423**, 30
birds, flight, Frigatebirds ride high on thermals, *Brief communication*, Weimerskirch, H, Chastel, O, Barbraud, C, Tostain, O, **421**, 333
Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363
birds, flightless, Extreme reversed sexual size dimorphism in the extinct New Zealand moa Dinornis, *Letter to Nature*, Bunce, M, Worthy, T H, Ford, T, Hoppitt, W, Willerslev, E, Drummond, A, Cooper, A, **425**, 172
Nuclear DNA sequences detect species limits in ancient moa, *Letter to Nature*, Huynen, L, Millar, C D, Scofield, R P, Lambert, D M, **425**, 175
Flightless birds: When did the dodo become extinct?, *Brief communication*, Roberts, D L, Solow, A R, **426**, 245
birds, influenza, as bird flu sparks alarm in Hong Kong, *News in brief*, **421**, 882
Chicken flu races through Dutch poultry farms, *News*, Abbott, A, **422**, 247
birds, metabolism, Avian metabolism: Costs of migration in free-flying songbirds, *Brief communication*, Wikelski, M, Tarlow, E M, Raim, A, Diehl, R H, Larkin, R P, Visser, G H, **423**, 704
birds, migration, Climate change: The earlier bird, *News and views*, van Noordwijk, A J, **422**, 29
Avian metabolism: Costs of migration in free-flying songbirds, *Brief communication*, Wikelski, M, Tarlow, E M, Raim, A, Diehl, R H, Larkin, R P, Visser, G H, **423**, 704
birds, nestling mimicry, Escalation of a coevolutionary arms race through host rejection of brood parasitic young, *Letter to Nature*, Langmore, N E, Hunt, S, Kilner, R M, **422**, 157
birds, photonic structures, Photonics structures in biology, *Insight review article*, Vukusic, P, Sambles, J R, **424**, 852
birds, plumage, Ecology: Study in blue, *News and views*, Hopkin, M, **423**, 820
birds, reproduction, Light-induced hormone conversion of T_4 to T_3 regulates photoperiodic response of gonads in birds, *Letter to Nature*, Yoshimura, T, Yasuo, S, Watanabe, M, Iigo, M, Yamamura, T, Hirunagi, K, Ebihara, S, **426**, 178
birds, running, Biomechanics: Early birds surmount steep slopes, *News and views*, Hutchinson, J R, **426**, 777
birds, singing, Birds sing at a higher pitch in urban noise, *Brief communication*, Slabbekoorn, H, Peet, M, **424**, 267
birds, swimming, Delta-wing function of webbed feet gives hydrodynamic lift for swimming propulsion in birds, *Letter to Nature*, Johansson, L C, Norberg, R A, **424**, 65
birds of prey, Prediction of auditory spatial acuity from neural images on the owl's auditory space map, *Letter to Nature*, Bala, A D S, Spitzer, M W, Takahashi, T T, **424**, 771
birth defects, Test-tube babies 'not at risk of brain defects', *News in brief*, **424**, 120
bismuth, Experimental detection of α-particles from the radioactive decay of natural bismuth, *Letter to Nature*, de Marcillac, P, Coron, N, Dambler, G, Leblanc, J, Moallc, J-P, **422**, 876
bivalve molluscs, Sulphide mining by the superextensile foot of symbiotic thyasirid bivalves, *Letter to Nature*, Dufour, S C, Felbeck, H, **426**, 65
black holes, Astronomy: Feeding the first quasars, *News and views*, Ferrarese, L, **421**, 329
Cosmology: Do black holes constrain varying constants?, *Brief communication*, Carlip, S, Vaidya, S, **421**, 498
Quantum gravity: The quantum of area?, *News and views*, Baez, J, **421**, 702
First-generation black-hole-forming supernovae and the metal abundance pattern of a very iron-poor star, *Letter to Nature*, Umeda, H, Nomoto, K, **422**, 871
Astronomy: New direction for γ-rays, *News and views*, Waxman, E, **423**, 388
Black holes: Sparks of interest, *News and views*, Narayan, R, **425**, 908
Near-infrared flares from accreting gas around the supermassive black hole at the Galactic Centre, *Letter to Nature*, Genzel, R, Schödel, R, Ott, T, Eckart, A, Alexander, T, Lacombe, F, Rouan, D, Aschenbach, B, **425**, 934
Astronomy: Black holes, fleas and microlithography, *Brief communication*, Skinner, G, Gorenstein, P, **426**, 245
Optics: Colourful 'black holes', *News and views*, Ball, P, **426**, 514
Black Sea, Anaerobic ammonium oxidation by anammox bacteria in the Black Sea, *Letter to Nature*, Kuypers, M M M, Sliekers, A O, Lavik, G, Schmid, M, Jorgensen, B B, Kuenen, J G, Sinninghe Damste, J S, Strous, M, Jetten, M S M, **422**, 608
black-billed magpie, Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363
Blakemore, Colin, Medical council pins hopes on public advocate of science, *News*, Giles, J, **423**, 211
Blix, Hans, Allies will expose Iraq's weapons, says Blix, *News*, Butler, D, **422**, 550
blood, Cardiovascular biology: Chilled-out platelets, *News and views*, Pearson, H, **421**, 331
Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II, Surgenor, D M, *Book review by* Tanford, C, Reynolds, J, **423**, 224
Bloom's syndrome, DNA helicase Srs2 disrupts the Rad51 presynaptic filament, *Letter to Nature*, Krejci, L, Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P, **423**, 305
The Bloom's syndrome helicase suppresses crossing over during homologous recombination, *Letter to Nature*, Wu, L, Hickson, I D, **426**, 870
bluegill sunfish, Wise fathers, *News and views*, Reynolds, J D, Sheldon, B C, **422**, 669
Decisions about parental care in response to perceived paternity, *Letter to Nature*, Neff, B D, **422**, 716
Bmi-1, Stem cells: Self-renewal writ in blood, *News and views*, Dick, J E, **423**, 231
Bmi-1 determines the proliferative capacity of normal and leukaemic stem cells, *Article*, Lessard, J, Sauvageau, G, **423**, 255
Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells, *Letter to Nature*, Park, I-K, ian, D, Kiel, M, Becker, M W, Pihalja, M, Weissman, I L, Morrison, S J, Clarke, M F, **423**, 302
Bmi-1 dependence distinguishes neural stem cell self-renewal from progenitor proliferation, *Letter to Nature*, Molofsky, A V, Pardal, R, Iwashita, T, Park, I-K, Clarke, M F, Morrison, S J, **425**, 962
body fat, Genome-wide RNAi analysis of *Caenorhabditis elegans* fat regulatory genes, *Letter to Nature*, Ashrafi, K, Chang, F Y, Watts, J L, Fraser, A G, Kamath, R S, Ahringer, J, Ruvkun, G, **421**, 268
body size, Physiology: Why does metabolic rate scale with body size, *Brief communication*, West, G B, Savage, V M, Gillooly, J, Enquist, B J, Woodruff, W H, Brown, J H, **421**, 713
Physiology: Hotter equals smaller, *News and views*, Pearson, H, **426**, 28
body temperature, Physiology: Hotter equals smaller, *News and views*, Pearson, H, **426**, 28
body weight, Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR-α, *Letter to Nature*, Fu, J, Gaetani, S, Oveisi, F, Verme, J L, Serrano, A, Rodriguez de Fonseca, F, Rosengarth, A, Luecke, H, Di Giacomo, B, Tarzia, G, Piomelli, D, **425**, 91
Boehlert, Sherwood, Moderate flies flag for science on Capitol Hill, *News*, Brumfiel, G, **422**, 365

bone, The complexities of skeletal biology, *Insight overview*, Karsenty, G, **423**, 316
  Deciphering skeletal patterning: clues from the limb, *Insight review article*, Mariani, F V, Martin, G R, **423**, 319
  Developmental regulation of the growth plate, *Insight review article*, Kronenberg, H M, **423**, 332
  Osteoclast differentiation and activation, *Insight review article*, Boyle, W J, Simonet, W S, Lacey, D L, **423**, 337
  The genetic basis for skeletal diseases, *Insight review article*, Zelzer, E, Olsen, B R, **423**, 343
  Endocrinology: Bone adaptation requires oestrogen receptor-a, *Brief communication*, Lee, K, Jessop, H, Suswillo, R, Zaman, G, Lanyon, L, **424**, 389
  Physiology: Foreman in the bone factory, *News and views*, Tromans, A, **425**, 909
  Bone archives face prospect of dispersal, *News*, Giles, J, **426**, 109
bone development, Biomaterials: Take a break, *News and views*, Pilcher, H R, **424**, 507
bone formation, Control of osteoblast function and regulation of bone mass, *Insight review article*, Harada, S, Rodan, G A, **423**, 349
bone marrow derived cells, Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes, *Letter to Nature*, Alvarez-Dolado, M, Pardal, R, Garcia-Verdugo, J M, Fike, J R, Lee, H O, Pfeffer, K, Lois, C, Morrison, S J, Alvarez-Buylla, A, **425**, 968
bone marrow derived hepatocytes, Cell fusion is the principal source of bone-marrow-derived hepatocytes, *Letter to Nature*, Wang, X, Willenbring, H, Akkari, Y, Torimaru, Y, Foster, M, Al-Dhalimy, M, Lagasse, E, Finegold, M, Olson, S, Grompe, M, **422**, 897
bone marrow transplantation, Transplanted bone marrow regenerates liver by cell fusion, *Letter to Nature*, Vassilopoulos, G, Wang, P-R, Russell, D W, **422**, 901
bone mass, Control of osteoblast function and regulation of bone mass, *Insight review article*, Harada, S, Rodan, G A, **423**, 349
bone morphogenetic protein, The BMP antagonist noggin regulates cranial suture fusion, *Letter to Nature*, Warren, S M, Brunet, L J, Harland, R M, Economides, A N, Longaker, M T, **422**, 625
  Developmental regulation of the growth plate, *Insight review article*, Kronenberg, H M, **423**, 332
  Developmental biology: A tadpole's tale, *News and views*, Tromans, A, **425**, 250
  Identification of the haematopoietic stem cell niche and control of the niche size, *Letter to Nature*, Zhang, J, Niu, C, Ye, L, Huang, H, He, X, Tong, W-G, Ross, J, Haug, J, Johnson, T, Feng, J Q, Harris, S, Wiedemann, L M, Mishina, Y, Li, L, **425**, 836
bone morphogenetic protein inhibitor, Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **422**, 317
  Erratum: Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **424**, 974
bone tumours, Cancer: From breast to bone, *News and views*, Pilcher, H R, **424**, 143
books, Rare book collection faces final chapter, *News in brief*, **421**, 682
BOOMERANG project, Up, up and away, *News feature*, Reichhardt, T, **421**, 308
Bose–Einstein condensates, Observation of two-dimensional discrete solitons in optically induced nonlinear photonic lattices, *Letter to Nature*, Fleischer, J W, Segev, M, Efremidis, N K, Christodoulides, D N, **422**, 147
  Bose–Einstein condensation of the triplet states in the magnetic insulator TlCuCl$_3$, *Letter to Nature*, Rüegg, Ch, Cavadini, N, Furrer, A, Güdel, H-U, Krämer, K, Mutka, H, Wildes, A, Habicht, K, Vorderwisch, P, **423**, 62
  Rocky Mountain high, *News feature*, Aldhous, P, **423**, 915
  Condensed-matter physics: Really cool molecules, *News and views*, Julienne, P S, **424**, 24
  Creation of ultracold molecules from a Fermi gas of atoms, *Letter to Nature*, Regal, C A, Ticknor, C, Bohn, J L, Jin, D S, **424**, 47
  Quantum physics: How cold can you go?, *News and views*, Ball, P, **424**, 143
  Quantum dynamics of a single vortex, *Letter to Nature*, Wallraff, A, Lukashenko, A, Lisenfeld, J, Kemp, A, Fistul, V, Koval, Y, Ustinov, A V, **425**, 155
  Controlled collisions for multi-particle entanglement of optically trapped atoms, *Letter to Nature*, Mandel, O, Greiner, M, Widera, A, Rom, T, Hänsch, T W, Bloch, I, **425**, 937
  Experimental observation of symmetry-breaking nonlinear modes in an active ring, *Letter to Nature*, Demokritov, S O, Serga, A A, Demidov, V E, Hillebrands, B, Kostylev, M P, Kalinikos, B A, **426**, 159
  Two teams make quantum leap in quest for merged molecules, *News in brief*, **426**, 220
  Emergence of a molecular Bose-Einstein condensate from a Fermi gas, *Letter to Nature*, Greiner, M, Regal, C A, Jin, D S, **426**, 537
bosons, Phonon interpretation of the 'boson peak' in supercooled liquids, *Letter to Nature*, Grigera, T S, Martin-Mayor, V, Parisi, G, Verrocchio, P, **422**, 289
  Below-par performance hampers Fermibal quest for Higgs boson, *News*, Brumfiel, G, **424**, 3
  Condensed-matter physics: Really cool molecules, *News and views*, Julienne, P S, **424**, 24
  Creation of ultracold molecules from a Fermi gas of atoms, *Letter to Nature*, Regal, C A, Ticknor, C, Bohn, J L, Jin, D S, **424**, 47
botany, Record-breaking bloom kicks up a stink, *News in brief*, **423**, 472
  The ascent of water, *Concepts*, Tyree, M T, **423**, 923
  Flowers' sick trick give botanists double trouble, *News*, Whitfield, J, **424**, 712
  Secret garden opens up to public, *News*, Cyranoski, D, **425**, 333
botulism, Avian botulism clips wings of Taiwanese spoonbills, *News in brief*, **421**, 202
Bovine Genome Project, Australia beefs up an udder genome project, *News in brief*, **424**, 606
bovine spongiform encephalitis, Routine tests reveal unknown strains of BSE prions, *News*, Willerroider, M, **425**, 648
bovine spongiform encephalopathy, Spongiform encephalopathies: Propagating warped prions, *News and views*, Pearson, H, **422**, 677
  How the Cows Turned Mad, Schwartz, M, Schneider, E, *Book review by* Race, R E, **423**, 118
  BSE case rattles Canadian officials, *News*, Hoag, H, **423**, 467
  Prion diseases: BSE in sheep bred for resistance to infection, *Brief communication*, Houston, F, Goldmann, W, Chong, A, Jeffrey, M, Gonzalez, L, Foster, J, Parnham, D, Hunter, N, **423**, 498
  When Food Kills: BSE, *E. coli* and Disaster Science, Pennington, H, *Book review by* Rubery, E, **425**, 561
  Academy calls for improved tests to beat prion disease, *News*, Knight, J, **426**, 216
  Rapid drug trial offers hope to CJD patients, *News*, Giles, J, **426**, 487
  Koreans rustle up madness-resistant cows, *News*, Cyranoski, D, **426**, 743
bowerbirds, Animal behaviour: Bowerbirds blues, *News and views*, Clarke, T, **424**, 507
boycotts, Is a scientific boycott ever justified?, *Commentary*, Blakemore, C, Dawkins, R, Noble, D, Yudkin, M, **421**, 314
  Scientific freedom: new strategies are needed, *Correspondence*, Lubchenco, J, Rosswall, T, Warren, P, **421**, 785
  Scientific freedom: some face a lonely dilemma, *Correspondence*, Macy, R, **421**, 785
***BRAC* genes**, Cancer: Sporadic insights, *News and views*, Heemels, M-T, **426**, 618
brachydactyly, The genetic basis for skeletal diseases, *Insight review article*, Zelzer, E, Olsen, B R, **423**, 343
brain, Neurobiology: The importance of depression, *News and views*, Stevens, C F, **421**, 29
  Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **421**, 66
  Meeting aims to find brain's benchmarks for beauty, *News*, Knight, J, **421**, 305
  Does Stress Damage the Brain? Understanding Trauma-related Disorders from a Mind-Body Perspective, Bremner, J D, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
  The End Of Stress As We Know It, McEwen, B, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
  Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744
  Neurobiology: Interneurons take charge, *News and views*, Moser, E I, **421**, 797
  Brain-state- and cell-type-specific firing of hippocampal interneurons *in vivo*, *Letter to Nature*, Klausberger, T, Magill, P J, Márton, L F, Roberts, J D B, Cobden, P M, Buzsáki, G, Somogyi, P, **421**, 844
  Cell polarity: From embryo to axon, *News and views*, Rolls, M M, Doe, C Q, **421**, 905
  Neuroscience: Going to town, *News and views*, Pilcher, H R, **422**, 132
  Corrigendum: Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **423**, 197
  The person within, *Concepts*, Damasio, A, **423**, 227
  Cortex and Mind: Unifying Cognition, Fuster, J M, *Book review by* Martin, K, **423**, 383
  Brain-Wise: Studies in Neurophilosophy, Smith Churchland, P, *Book review by* Noe, A, **423**, 805
  Neurobiology: Wiring the brain, *News and views*, Pearson, H, **423**, 935
  Seeing sense, *Science in culture*, Kemp, M, **424**, 18
  Essential Difference: Men, Women and the Extreme Male Brain/Essential Difference: The Truth About the Male and Female Brain, Baron-Cohen, S, *Book review by* Benenson, J F, **424**, 132
  Topography and synaptic shaping of direction selectivity in primary auditory cortex, *Letter to Nature*, Zhang, L I, Tan, A Y Y, Schreiner, C E, Merzenich, M M, **424**, 201
  Evolutionary biology: Body plans and simple brains, *News and views*, Lacalli, T, **424**, 263
  Brain region linked to post-terror stress, *News*, Cyranoski, D, **424**, 360
  Decisions, Uncertainty, and the Brain: The Science of Neuroeconomics, Glimcher, P W, *Book review by* Montague, P R, **424**, 371
  Brain protein project enlists mice in 'dry run', *News*, Abbott, A, **425**, 110
  Software mogul turns to mouse for genetic atlas of the brain, *News*, Dalton, R, **425**, 226
  Lost for words, *News feature*, Murphy, G, **425**, 340
  Obituary: Patricia S. Goldman-Rakic (1937–2003), *News and views*, Nestler, E J, **425**, 471
  Independent rate and temporal coding in hippocampal pyramidal cells, *Letter to Nature*, Huxter, J, Burgess, N, O'Keefe, J, **425**, 828
  BAC-to-BAC images of the brain, *News and views*, Zoghbi, H Y, **425**, 907
  Palaeontology: Smart-winged pterosaurs, *News and views*, Unwin, D M, **425**, 910
  A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917
  Neuroscience: Genomics on the brain, *News feature*, Abbott, A, **426**, 757
  Presynaptic induction of heterosynaptic associative plasticity in the mammalian brain, *Letter to Nature*, Humeau, Y, Shaban, H, Bissiere, S, Luthi, A, **426**, 841
brain imaging, The Bard on the Brain: Understanding the Mind Through the Art of Shakespeare and the Science of Brain Imaging, Matthews, P M, McQuain, J, *Book review by* Martin, K A C, **424**, 254
brain mapping, A new atlas of the brain, *News feature*, Abbott, A, **424**, 249
Brain Molecular Anatomy Project, Neuroscience: Genomics on the brain, *News feature*, Abbott, A, **426**, 757
brain-derived neurotrophic factor, Truncated TrkB-T1 mediates neurotrophin-evoked calcium signalling in glia cells, *Letter to Nature*, Rose, C R, Blum, R, Pichler, B, Lepier, A, Kafitz, K W, Konnerth, A, **426**, 74
Brazil, Chemical catastrophe poisons Brazilian rivers, *News in brief*, **422**, 552
  Brazil's R&D agenda, *Opinion*, **423**, 367
  Brazilian brain experts plan research village, *News*, Hoag, H, **423**, 372
  Under new management, *News feature*, Adam, D, **423**, 379
Brazil, forensic medicine, Back from the dead, *News feature*, Adam, D, **423**, 13
Brazil, transgenic crops, Brazilian ruling sows seeds for transgenic future, *News in brief*, **425**, 442
brazil-nut effect, Granular materials: Nut theory gets a shakedown, *News and views*, Ball, P, **421**, 331
breast cancer, Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab, *Letter to Nature*, Cho, H-S, Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J, **421**, 756
  Cancer: Cell invasions and oestrogen receptors, *News and views*, Pilcher, H R, **422**, 829
  Gene patents and the public good, *Opinion*, **423**, 207
  Cancer: From breast to bone, *News and views*, Pilcher, H R, **424**, 143
  Cancer: Sporadic insights, *News and views*, Heemels, M-T, **426**, 618
Breer, Heinz, Stench of fraud in German odour lab as paper cries foul, *News in brief*, **422**, 794
  Preliminary inquiry clears brain scientist of fraud allegation, *News*, Abbott, A, **424**, 243
brefeldin A, Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor, *Article*, Renault, L, Guibert, B, Cherfils, J, **426**, 525
brewing industry, Organic brewery ferments opposition to GM crops, *News in brief*, **426**, 488
British Library, Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217
British Medical Journal, Medical journal under attack as dissenters seize AIDS platform, *News*, Butler, D, **426**, 215
British Nuclear Fuels, Britain set to pull the plug on nuclear-fuel reprocessing, *News*, Schiermeier, Q, **425**, 7
Broad Institute, Whitehead geneticist quits for broad remit at medical institute, *News in brief*, **423**, 910
Brockhouse, Bertram N., Obituary: Bertram N. Brockhouse (1918–2003), *News and views*, Timusk, T, **426**, 617
Brodmann, Korbinian, A new atlas of the brain, *News feature*, Abbott, A, **424**, 249
bromine monoxide, Detection of bromine monoxide in a volcanic plume, *Letter to Nature*, Bobrowski, N, Honninger, G, Galle, B, Platt, U, **423**, 273
brood parasites, Speciation by host switch in brood parasitic indigobirds, *Letter to Nature*, Sorenson, M D, Sefc, K M, Payne, R B, **424**, 928
Brossel, Jean, Obituary: Jean Brossel (1918–2003), *News and views*, Laloe, F, **422**, 274
Brown, Pat, Open-access row leads paper to shed authors, *News*, Butler, D, **425**, 334
brown recluse spiders, Arachnology: Scavenging by brown recluse spiders, *Brief communication*, Sandidge, J S, **426**, 30
Browne, John, Los Alamos directors resign after row over sacked whistleblowers, *News*, Brumfiel, G, **421**, 99
brownian motion, Asymmetric pores in a silicon membrane acting as massively parallel brownian ratchets, *Letter to Nature*, Matthias, S, Müller, F, **424**, 53
  Nonlinear physics: A brownian motor, *News and views*, Ball, P, **424**, 898
  Observing brownian motion in vibration-fluidized granular matter, *Letter to Nature*, D'Anna, G, Mayor, P, Barrat, A, Loreto, V, Nori, F, **424**, 909
Brucella abortus, Microbiology: Prion as passport, *News and views*, Clarke, T, **424**, 385
Brunet, Michel, Hunts for neutrinos and hominids pay off, *News in brief*, **422**, 366
  Dreams of the past — Michel Brunet, *Lifelines*, **423**, 121
BTB proteins, biquitin ligase, The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase, *Letter to Nature*, Pintard, L, Willis, J H, Willems, A, Johnson, J-L F, Srayko, M, Kurz, T, Glaser, S, Mains, P E, Tyers, M, Bowerman, B, Peter, M, **425**, 311
  The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase, *Letter to Nature*, Pintard, L, Willis, J H, Willems, A, Johnson, J-L F, Srayko, M, Kurz, T, Glaser, S, Mains, P E, Tyers, M, Bowerman, B, Peter, M, **425**, 311
  BTB proteins are substrate-specific adaptors in an SCF-like modular ubiquitin ligase containing CUL-3, *Letter to Nature*, Xu, L, Wei, Y, Reboul, J, Vaglio, P, Shin, T-H, Vidal, M, Elledge, S J, Harper, J W, **425**, 316
bubble formation, Gas-bubble lesions in stranded cetaceans, *Brief*

communication, Jepson, P D, Arbelo, M, Deaville, R, Patterson, I A P, Castro, P, Baker, J R, Degollada, E, Ross, H M, Herraez, P, Pocknell, A M, Rodriguez, F, Howie, F E, Espinosa, A, Reid, R J, Jaber, J R, Martin, V, Cunningham, A A, Fernandez, A, **425**, 575
bubbles, Fluid dynamics: How to crack a liquid, *News and views*, Ball, P, **423**, 395
bubbles, cavitating, Controlled vesicle deformation and lysis by single oscillating bubbles, *Letter to Nature*, Marmottant, P, Hilgenfeldt, S, **423**, 153
bubonic plague, Bacteria researcher plagued by fallout from security scare, *News in brief*, **421**, 306
building design, London's gherkin, *Science in culture*, Hopkin, M, **422**, 22
bunker-busters, Experts blast US decision to back nuclear bunker-busters, *News*, Brumfiel, G, **423**, 469
Burgess, David, Stargazer sees red, *News in brief*, **422**, 366
Burkitt's lymphoma, Medicine: Virus offers life support to cancer, *News and views*, Heemels, M-T, **426**, 242
burst oscillations, Nuclear-powered millisecond pulsars and the maximum spin frequency of neutron stars, *Letter to Nature*, Chakrabarty, D, Morgan, E H, Muno, M P, Galloway, D K, Wijnands, R, van der Klis, M, Markwardt, C B, **424**, 42
Burst and Transient Source Experiment, Astronomy: Glowing embers, *News and views*, Piran, T, **422**, 268
bushbabies, Palaeontology: Combing the primate record, *News and views*, Martin, R D, **422**, 388
Fossil evidence for an ancient divergence of lorises and galagos, *Letter to Nature*, Seiffert, E R, Simons, E L, Attia, Y, **422**, 421
bushfires, Burning issues, *News feature*, Dennis, C, **421**, 204
Bushfires annihilate Australian observatory, *News*, Dennis, C, **421**, 302
bushmeat, Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551
Eating Apes, Peterson, D, *Book review by* owlishaw, G, **424**, 131
Butler, D, Commission lays foundations for rise in research spending, *News*, **423**, 6
Butler, Thomas, Peers rally in support of accused scientist, *News*, Check, E, **425**, 5
Plague trial verdict leaves biologists split on biodefence, *News*, Check, E, **426**, 593
Boom, or bust?, *News feature*, Check, E, **426**, 598
buttercups, Plant biology: Buttercup bondage, *News and views*, Hoag, H, **423**, 598
butterflies, Polarized light as a butterfly mating signal, *Brief communication*, Sweeney, A, Jiggins, C, Johnsen, S, **423**, 31
Captivity masks inbreeding effects on male mating success in butterflies, *Letter to Nature*, Joron, M, Brakefield, P M, **424**, 191
butterfly effect, Nonlinear dynamics: Synchronization from chaos, *News and views*, Ashwin, P, **422**, 384

c-Myc, Direct activation of RNA polymerase III transcription by c-Myc, *Letter to Nature*, Gomez-Roman, N, Grandori, C, Eisenman, R N, White, R J, **421**, 290
C/EBP proteins, Neuroscience: How to forget, *News and views*, Pilcher, H H, **424**, 1011
Cabin1 protein, Sequence-specific recruitment of transcriptional co-repressor Cabin1 by myocyte enhancer factor-2, *Letter to Nature*, Han, A, Pan, F, Stroud, J C, Youn, H-D, Liu, J O, Chen, L, **422**, 730
E-cadherin, Developmental biology: A hairy situation, *News and views*, Barrandon, Y, **422**, 272
Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **422**, 317
Erratum: Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **424**, 974
cadmium, Environmental biology: Metallic worms turn, *News and views*, Whitfield, J, **424**, 740
Caenorhabditis briggsae, Comparative genomics: Two worms are better than one, *News and views*, Blaxter, M, **426**, 395
Caenorhabditis elegans, Functional genomics: RNA sets the standard, *News and views*, Tuschi, T, **421**, 220
Systematic functional analysis of the *Caenorhabditis elegans* genome using RNAi, *Article*, Kamath, R S, Fraser, A G, Dong, Y, Poulin, G, Durbin, R, Gotta, M, Kanapin, A, Le Bot, N, Moreno, S, Sohrmann, M, Welchman, D P, Zipperien, P, Ahringer, J, **421**, 231
Genome-wide RNAi analysis of *Caenorhabditis elegans* fat regulatory genes, *Letter to Nature*, Ashrafi, K, Chang, F Y, Watts, J L, Fraser, A G, Kamath, R S, Ahringer, J, Ruvkun, G, **421**, 268
Retraction: A cytosolic catalase is needed to extend adult lifespan in *C. elegans daf-C* and *clk-1* mutant, *Letter to Nature*, Taub, J, Lau, J F, Ma, C, Hahn, J H, Hoque, R, Rothblatt, J, Chalfie, M, **421**, 764
Ageless Quest: One Scientist's Search for Genes That Prolong Youth, Guarente, L, *Book review by* Partridge, L, **421**, 789
Adaptation of core mechanisms to generate cell polarity, *Insight review article*, Nelson, W J, **422**, 766
Shuttle's wonder worms make it back to NASA in one piece, *News in brief*, **423**, 108
Caenorhabditis elegans early embryogenesis and vulval morphogenesis depend on chondroitin biosynthesis, *Letter to Nature*, Hwang, H-Y, Olson, S K, Esko, J D, Horvitz, H R, **423**, 439
Chondroitin proteoglycans are involved in cell division of *Caenorhabditis elegans*, *Letter to Nature*, Mizuguchi, S, Uyama, T, Kitagawa, H, Nomura, K H, Dejima, K, Gengyo, Ando, K, Mitani, S, Sugahara, K, Nomura, K, **423**, 443
Ion channels: Opposite thermosensor in fruitfly and mouse, *Brief communication*, Viswanath, V, Story, G M, Peier, A M, Petrus, M J, Lee, V M, Hwang, S W, Patapoutian, A, Jegla, T, **423**, 822
Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Article*, Kawasaki, H, Taira, K, **423**, 838
CUL-4 ubiquitin ligase maintains genome stability by restraining DNA-replication licensing, *Letter to Nature*, Zhong, W, Feng, H, Santiago, F E, Kipreos, E T, **423**, 885
Evolutionary biology: Compensation claim, *News and views*, Hopkin, M, **423**, 935
Chromosome cohesion is regulated by a clock gene paralogue TIM-1, *Letter to Nature*, Chan, R C, Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J, **423**, 1002
Ageing: Microarraying mortality, *News and views*, Gems, D, McElwee, J J, **424**, 259
Genes that act downstream of DAF-16 to influence the lifespan of *Caenorhabditis elegans*, *Article*, Murphy, C T, McCarroll, S A, Bargmann, C I, Fraser, A, Kamath, R S, Ahringer, J, Li, H, Kenyon, C, **424**, 277
Exclusion of germ plasm proteins from somatic lineages by cullin-dependent degradation, *Letter to Nature*, DeRenzo, C, Reese, K J, Seydoux, G, **424**, 685
Suppression of CED-3-independent apoptosis by mitochondrial βNAC in *Caenorhabditis elegans*, *Letter to Nature*, Bloss, T A, Witze, E S, Rothman, J H, **424**, 1066
Developmental biology: Protein destruction from egg to embryo, *News and views*, Pilcher, H R, **425**, 364
Transposon silencing in the *Caenorhabditis elegans* germ line by natural RNAi, *Letter to Nature*, Sijen, T, Plasterk, R H A, **426**, 310
Genetics: Influence of TOR kinase on lifespan in C. elegans, *Brief communication*, Vellai, T, Takacs-Vellai, K, Zhang, Y, Kovacs, A L, Orosz, L, Muller, F, **426**, 620
A microRNA controlling left/right neuronal asymmetry in *Caenorhabditis elegans*, *Letter to Nature*, Johnston, R J, Hobert, O, **426**, 845
caffeine, Natural decaf could brew trouble for farmers, *Correspondence*, Baker, P S, **424**, 613
Cajal, Ramón y, 1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761
CAK, Xpd/Ercc2 regulates CAK activity and mitotic progression, *Letter to Nature*, Chen, J, Larochelle, S, Li, X, Suter, B, **424**, 228
calcium, A cell surface receptor mediates extracellular Ca^{2+} sensing in guard cells, *Letter to Nature*, Han, S, Tang, R, Anderson, L K, Woerner, T E, Pei, Z-M, **425**, 196
calcium carbonate, Synthetic sea shell, *News and views*, Rubner, M, **423**, 925
calcium channels, α-Neurexins couple Ca^{2+} channels to synaptic vesicle exocytosis, *Article*, Missler, M, Zhang, W, Rohlmann, A, Kattenstroth, G, Hammer, R E, Gottmann, K, Sudhof, T C, **423**, 939
Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning, *Letter to Nature*, Nishiyama, M, Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-m, Hong, K, **423**, 990
T-type calcium channel regulation by specific G-protein βγ subunits, *Letter to Nature*, Wolfe, J T, Wang, H, Howard, J, Garrison, J C, Barrett, P Q, **424**, 209
Haem can bind to and inhibit mammalian calcium-dependent Slo1 BK channels, *Letter to Nature*, Tang, X D, Xu, R, Reynolds, M F, Garcia, M L, Heinemann, S H, Hoshi, T, **425**, 531
calcium copper oxides, Retraction: Superconductivity in $CaCuO_2$ as a result of field-effect doping, *Letter to Nature*, Schön, J H, Dorget, M, Beuran, F C, Zu, X Z, Arushanov, E, Deville Cavellin, C, Laguës, M, **422**, 92
calcium oxalate, Surface chemistry: Riddle of the stones, *News and views*, Ball, P, **422**, 275
calcium-aluminium-rich inclusions, A questioning of timing, *News and views*, Alexander, C, **423**, 691
Contemporaneous formation of chondrules and refractory inclusions in the early Solar System, *Letter to Nature*, Itoh, S, Yurimoto, H, **423**, 728
Calidris canutus, Physiology: Fast food, *News and views*, Whitfield, J, **426**, 136
Caliebe, Wolfgang, Physicist discouraged by heightened security, *News*, Brumfiel, G, **422**, 458
Californian sea lions, Disease susceptibility in California sea lions, *Brief communication*, Acevedo-Whitehouse, K, Gulland, F, Greig, D, Amos, W, **422**, 35
caloric restriction, Ageless Quest: One Scientist's Search for Genes That Prolong Youth, Guarente, L, *Book review by* Partridge, L, **421**, 789
calorimetry, A common origin for cosmic explosions inferred from calorimetry of GRB0303929, *Letter to Nature*, Berger, E, Kulkarni, S R, Pooley, G, Frail, D A, McIntyre, V, Wark, R M, Sari, R, Soderberg, A M, Fox, D W, Yost, S, Price, P A, **426**, 154
Cambrian era, Life on a Young Planet: The First Three Billion Years of Evolution on Earth, Knoll, A H, *Book review by* Bengtson, S, **423**, 481
Cambrian fossils, Head and backbone of the Early Cambrian vertebrate *Haikouichthys*, *Letter to Nature*, Shu, D-G, Conway Morris, S, Han, J, Zhang, Z-F, Yasui, K, Janvier, P, Chen, L, Zhang, X-L, Liu, J-N, Li, Y, Liu, H-Q, **421**, 526
Cambridge reference sequence, Error reports threaten to unravel databases of mitochondrial DNA, *News*, Dennis, C, **421**, 773
camelid antibody, A camelid antibody fragment inhibits the formation of amyloid fibrils by human lysozyme, *Letter to Nature*, Dumoulin, M, Last, A M, Desmyter, A, Decanniere, K, Canet, D, Larsson, G, Spencer, A, Archer, D B, Sasse, J, Muyldermans, S, Wyns, L, Redfield, C, Matagne, A, Robinson, C V, Dobson, C M, **424**, 783
cameras, Smile, it's the world's biggest digital camera, *News in brief*, **422**, 654
camouflage, Insect behaviour: Motion camouflage in dragonflies, *Brief communication*, Mizutani, A, Chahl, J S, Srinivasan, M V, **423**, 604
Canada, Canada drives medical protein-structure hunt, *News in brief*, **422**, 462
Infection risk puts the brakes on Canada's biomedical research, *News*, Clarke, T, **422**, 652
BSE case rattles Canadian officials, *News*, Hoag, H, **423**, 467
Canada, astronomy, Canadians see stars after cash windfall, *News in brief*, **423**, 578
Canada, Centre for Traditional Knowledge, Spiritual link is part of traditional knowledge, *Correspondence*, Kitchikeesic Juden, L, **421**, 313
Canada, cod, Europe dithers as Canada cuts cod fishing, *News*, Schiermeier, Q, **423**, 212
Canada, Department of Fisheries and Oceans, Atlantic cod meet icy death, *News*, Hoag, H, **422**, 792
Canada, nuclear fusion, Canada prepares to pull the plug on fusion project, *News*, Brumfiel, G, **425**, 887
Canada, Polar Continental Shelf Project, Scientists call for Canada to boost polar-shelf funding, *News*, Spurgeon, D, **421**, 464
Canada, research funding, Canada boosts spending on science, *News*, Spurgoen, D, **421**, 880
Canada, stem-cell research, Approval for stem cells pre-empts parliament, *News in brief*, **423**, 374
Canadian lynx, Ecological and genetic spatial structuring in the Canadian lynx, *Letter to Nature*, Rueness, E K, Stenseth, N C, O'Donoghue, M, Boutin, S, Ellegren, H, Jakobsen, K S, **425**, 69
canalization, Theoretical biology: Safeguards and spurs, *News and views*, Stearns, S C, **424**, 501
Canary Islands, Online database: Island investigations, *Book review*, Abbott, A, **424**, 491
cancer, Second cancer case halts gene-therapy trials, *News*, Check, E, **421**, 305
Cancer summed up, *Concepts*, Gatenby, R A, Maini, P K, **421**, 321
Feature: The double helix and immunology, *Feature*, Nossal, G J V, **421**, 440
Cancer: More than skin deep, *News and views*, Bolotin, D, Fuchs, E, **421**, 594
NF-κB blockade and oncogenic Ras trigger invasive human epidermal neoplasia, *Letter to Nature*, Dajee, M, Lazarov, M, Zhang, J Y, Cai, Ti, Green, C L, Russell, A J, Marinkovich, M P, Tao, S, Lin, Q, Kubo, Y, Khavari, P A, **421**, 639
Cancer fears casts doubts on future of gene therapy, *News*, Check, E, **421**, 678
Cancer risk prompts US to curb gene therapy, *News*, Check, E, **422**, 7
Hedgehog signalling within airway epithelial progenitors and in small-cell lung cancer, *Letter to Nature*, Watkins, D N, Berman, D M, Burkholder, S G, Wang, B, Beachy, P A, Baylin, S B, **422**, 313
Cancer: Building blood vessels, *News and views*, Pilcher, H R, **422**, 487
Cell biology: Developmental predisposition to cancer, *Brief communication*, Frank, S A, Nowak, M A, **422**, 494
Cancer conference scrapped as outbreak intensifies, *News*, Clarke, T, **422**, 547
Poetic pride in steps towards knowledge, *Correspondence*, Wong, M-L, **422**, 559
Coordinated histone modifications mediated by a CtBP co-repressor complex, *Letter to Nature*, Shi, Y, Sawada, J-I, Sui, G, Affar, E B, Whetstline, J R, Lan, F, Ogawa, H, Luke, M P-S, Nakatani, Y, Shi, Y, **422**, 735
Cancer: Escape from inhibition, *News and views*, Courtneidge, S A, **422**, 827
Cancer: Cell invasions and oestrogen receptors, *News and views*, Pilcher, H R, 422, 829
Cancer body gets tough on conflicts, *News in brief*, **423**, 108
Gene patents and the public good, *Opinion*, **423**, 207
Cancer: Brake for cell division, *News and views*, Heemels, M-T, **423**, 238
Cell division: Genome maintenance, *News and views*, Raff, J W, **423**, 493
Cancer: Genetic prescription, *News and views*, Carlsson, C, **423**, 496
Gut reaction, *News feature*, Whitfield, J, **423**, 583
Cancer: Out of air is not out of action, *News and views*, Bottaro, D P, Liotta, L A, **423**, 593
Cancer: The alcohol factor, *News and views*, Pilcher, H R, **424**, 31
Cancer: From breast to bone, *News and views*, Pilcher, H R, **424**, 143
Acute mutation of retinoblastoma gene function is sufficient for cell cycle re-entry, *Letter to Nature*, Sage, J, Miller, A L, Pérez-Mancera, P A, Wysocki, J M, Jacks, T, **424**, 223
Integration of interferon-α/β signalling to p53 responses in tumour suppression and antiviral defence, *Article*, Takaoka, A, Hayakawa, S, Yanai, H, Stoiber, D, Negishi, H, Kikuchi, H, Sasaki, S, Imai, K, Shibue, T, Honda, K, Taniguchi, T, **424**, 516
Measuring fast neutrons in Hiroshima at distances relevant to atomic-bomb survivors, *Letter to Nature*, Straume, T, Rugel, G, Marchetti, A A, Ruhm, W, Korschinek, G, McAninch, J E, Carroll, K, Egbert, S, Faestermann, T, Knie, K, Martinelli, R, Wallner, A, Wallner, C, **424**, 539
Cancer: Protective packaging for DNA, *News and views*, Downs, J A, Jackson, S P, **424**, 732
Signal transduction: Aspirin, ubiquitin and cancer, *News and views*, Wilkinson, K D, **424**, 738
Cancer: Hostile takeover, *News and views*, Heemels, M-T, **424**, 898

Cancer: Location, location, location, *News and views*, Thomas, C, **425**, 34

Cancer: Cues for migration, *News and views*, Bernards, R, **425**, 247

Cancer: The rules of attraction, *News and views*, Neckers, L, Lee, Y-S, **425**, 357

A high-affinity conformation of Hsp90 confers tumour selectivity on Hsp90 inhibitors, *Letter to Nature*, Kamal, A, Thao, L, Sensintaffar, J, Zhang, L, Boehm, M F, Fritz, L C, Burrows, F J, **425**, 407

Cancer: Further perils of passive smoking, *News and views*, Pilcher, H R, **425**, 472

Cancer: A twist in a hedgehog's tale, *News and views*, Scott, M P, **425**, 780

Widespread requirement for Hedgehog ligand stimulation in growth of digestive tract tumours, *Letter to Nature*, Berman, D M, Karhadkar, S S, Maltra, A, Montes de Oca, R, Gerstenblith, M R, Briggs, K, Parker, A R, Shimada, Y, Eshleman, J R, Watkins, D N, Beachy, P A, **425**, 846

Hedgehog is an early and late mediator of pancreatic cancer tumorigenesis, *Letter to Nature*, Thayer, S P, Pasca di Magliano, M, Heiser, P W, Nielsen, C M, Roberts, D J, Lauwers, G Y, Qi, Y P, Gysin, S, Fernandez-del Castillo, C, Yajnik, V, Antoniu, B, McMahon, M, Warshaw, A L, Hebrok, M, **425**, 851

Tumour tactics, *Concepts*, Kitano, H, **426**, 125

Medicine: Virus offers life support to cancer, *News and views*, Heemels, M-T, **426**, 242

Medicine: Taking apart a cancer protein, *News and views*, Scaglioni, P P, Pandolfi, P P, **426**, 512

Cancer: Germ-cell suspect in the male, *News and views*, Pilcher, H R, **426**, 514

Cancer centre finally finds its head, *News in brief*, **426**, 596

Cancer: Sporadic insights, *News and views*, Heemels, M-T, **426**, 618

cancer research, Report exposes errors in cancer 'breakthrough', *News in brief*, **421**, 566

Discontent grows as cancer institute remains rudderless, *News in brief*, **423**, 214

Dispute over data privacy halts cancer study, *News*, Cyranoski, D, **424**, 359

Cancer grant chief denies Harvard bias, *News in brief*, **426**, 221

cancer therapy, Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab, *Letter to Nature*, Cho, H-S, Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J, **421**, 756

Cell biology: Drug resistance lies within, *News and views*, Pearson, H, **423**, 134

Biologists take tentative steps towards bespoke cancer drugs, *News*, Cyranoski, D, **423**, 209

Materials science: Nanoparticles target tumours, *News and views*, Morris, J, **423**, 935

cancer vaccine, Retraction ends furore over cancer vaccine, *News*, Abbott, A, **425**, 4

Shortcomings halt study of Swiss cancer vaccine, *News*, Schiermeier, Q, **426**, 484

Canis Major dwarf galaxy, View of space expands in both directions, *News in brief*, **426**, 113

cannabis, Court ruling sees ban on medical marijuana go up in smoke, *News in brief*, **425**, 756

Medical tests of cannabis leave doctors in a haze, *News in brief*, **426**, 113

cannibalism, Cannibalism in the Madagascan dinosaur *Majungatholus atopus*, *Letter to Nature*, Rogers, R R, Krause, D W, Curry Rogers, K, **422**, 515

Dig pinpoints scene of Donner cannibal legend, *News in brief*, **424**, 988

cap carbonates, Stable isotopic evidence for methane seeps in Neoproterozoic postglacial cap carbonates, *Letter to Nature*, Jiang, G, Kennedy, M J, Christie-Blick, N, **426**, 822

capillary attraction, Capillary attraction: Like-charged particles at liquid interfaces, *Brief communication*, Megens, M, Aizenberg, J, **424**, 1014

Reply: Capillary attraction: Like-charged particles at liquid interfaces, *Brief communication*, Nikolaides, M G, Bausch, A R, Hsu, M F, Dinsmore, A D, Brenner, M P, Gay, C, Weitz, D A, **424**, 1014

capsaicin, Sensory transduction: Feel the heat, *News and views*, Craven, R, **423**, 496

captivity, Captivity masks inbreeding effects on male mating success in butterflies, *Letter to Nature*, Joron, M, Brakefield, P M, **424**, 191

Captivity effects on wide-ranging carnivores, *Brief communication*, Clubb, R, Mason, G, **425**, 473

carbon, Materials chemistry: Diamonds from dry ice, *News and views*, Ball, P, **424**, 740

Organic electronics: Carbon makes contact, *News and views*, Ball, P, **426**, 242

carbon cycle, Strategy for climate research gets cool response, *News*, Brumfiel, G, **424**, 475

In situ experimental evidence of the fate of a phytodetritus pulse at the abyssal sea floor, *Letter to Nature*, Witte, U, Wenzhöfer, F, Sommer, S, Boetius, A, Heinz, P, Aberle, N, Sand, M, Cremer, A, Abraham, W-R, Jorgensen, B B, Pfannkuche, O, **424**, 763

Global carbon cycle: Metabolic balance of the open sea, *Brief communication*, Karl, D M, Laws, E A, Morris, P, Williams, P J l, Emerson, S, **426**, 32

The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, Berner, R A, **426**, 323

carbon dioxide, Corrigendum: Altered performance of forest pests under atmospheres enriched by CO$_2$ and O$_3$, *Letter to Nature*, Percy, K E, Awmack, C S, Lindroth, R L, Kubiske, M E, Kopper, B J, Isebrands, J G, Pregitzer, K S, Hendrey, G R, Dickson, R E, Zak, D R, Oksanen, E, Sober, J, Harrington, R, Karnosky, D F, **421**, 190

Increased CO$_2$ uncouples growth from isoprene emission in an agriforest ecosystem, *Letter to Nature*, Rosenstiel, T N, Potosnak, M J, Griffin, K L, Fall, R, Monson, R K, **421**, 256

Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28

carbon dioxide, atmospheric, Palaeoclimatology: Cooling a continent, *News and views*, Barrett, P, **421**, 221

Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO$_2$, *Letter to Nature*, DeConto, R M, Pollard, D, **421**, 245

Biosphere owner sues sponsor, *News*, Gewin, V, **422**, 461

High CO$_2$ levels in the Proterozoic atmosphere estimated from analyses of individual microfossils, *Letter to Nature*, Kaufman, A J, Xiao, S, **425**, 279

Anthropogenic carbon and ocean pH, *Brief communication*, Caldeira, K, Wickett, M E, **425**, 365

Reduction of soil carbon formation by tropospheric ozone under increased carbon dioxide levels, *Letter to Nature*, Loya, W M, Pregitzer, K S, Karberg, N J, King, J S, Giardina, C P, **425**, 705

carbon dioxide, oceanic, Climate-driven changes to the atmosphere CO$_2$ sink in the subtropical North Pacific Ocean, *Letter to Nature*, Dore, J E, Lukas, R, Sadler, D W, Karl, D M, **424**, 754

carbon dioxide exchange, The tobacco aquaporin NtAQP1 is a membrane CO$_2$ pore with physiological functions, *Letter to Nature*, Uehlein, N, Lovisolo, C, Siefritz, F, Kadenhoff, R, **425**, 734

carbon dioxide fixation, Atmospheric chemistry: Iron injection, *News and views*, Ball, P, **426**, 242

carbon dioxide sinks, Climate-driven changes to the atmosphere CO$_2$ sink in the subtropical North Pacific Ocean, *Letter to Nature*, Dore, J E, Lukas, R, Sadler, D W, Karl, D M, **424**, 754

carbon emissions, Fire science for rainforests, *Review article*, Cochrane, M A, **421**, 913

Yes, we have no energy policy, *Editorial*, **422**, 1

Coal-fired power plant to bury issue of emissions, *News*, Hoag, H, **422**, 7

carbon fixation, African vegetation controlled by tropical sea surface temperatures in the mid-Pleistocene period, *Letter to Nature*, Schefuß, E, Schouten, S, Jansen, J H F, Damste, J S S, **422**, 418

carbon loss, Carbon loss by deciduous trees in a CO$_2$-rich ancient polar environment, *Letter to Nature*, Royer, D L, Osborne, C P, Beerling, D J, **424**, 60

carbon monoxide, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28

The essential signature of a massive starburst in a distant quasar, *Letter to Nature*, Solomon, P, Vanden Bout, P, Carilli, C, Guelin, M, **426**, 636

carbon nanotubes, Materials science: Mind the gap, *News and views*, Morris, J, **422**, 674

Corrigendum: High brightness electron beam from a multi-walled carbon nanotube, *Letter to Nature*, de Jonge, N, Lamy, Y, Schoots, K, Oosterkamp, T H, **423**, 461

Super-tough carbon-nanotube fibres, *Brief communication*, Dalton, A B, Collins, S, Muñoz, E, Razal, J M, Ebron, V H, Ferraris, J P, Coleman, J N, Kim, B G, Baughman, R H, **423**, 703

Miniaturized gas ionization sensors using carbon nanotubes, *Letter to Nature*, Modi, A, Koratkar, N, Lass, E, Wei, B, Ajayan, P M, **424**, 171

Rotational actuators based on carbon nanotubes, *Letter to Nature*, Fennimore, A M, Yuzvinsky, T D, Han, W-Q, Fuhrer, M S, Cumings, J, Zettl, A, **424**, 408

Nanotechnology: A barrier falls, *News and views*, Tersoff, J, **424**, 622

Ballistic carbon nanotube field-effect transistors, *Letter to Nature*, Javey, A, Guo, J, Wang, Q, Lundstrom, M, Dai, H, **424**, 654

Nanotube electronics: Large-scale assembly of carbon nanotubes, *Brief communication*, Rao, S G, Huang, L, Setyawan, W, Hong, S, **425**, 36

Direct observation of Tomonaga-Luttinger-liquid state in carbon nanotubes at low temperatures, *Letter to Nature*, Ishii, H, Kataura, H, Shiozawa, H, Yoshioka, H, Otsubo, H, Takayama, Y, Miyahara, T, Suzuki, S, Achiba, Y, Nakatake, M, Narimura, T, Higashiguchi, M, Shimada, K, Namatame, H, Taniguchi, M, **426**, 540

carbon sinks, Environmental science: Shades of China, *News and views*, Clarke, T, **423**, 134

Strategy for climate research gets cool response, *News*, Brumfiel, G, **424**, 475

carbon, solubility, Carbon solubility in olivine and the mode of carbon storage in the Earth's mantle, *Letter to Nature*, Keppler, H, Wiedenbeck, M, Shcheka, S S, **424**, 414

carbon-cycle feedback, Climate change: Hot tips on temperature, *News and views*, Clarke, T, **423**, 598

carbonitride, Creep-strengthening of steel at high temperatures using nano-sized carbonitride dispersions, *Letter to Nature*, Taneike, M, Abe, F, Sawada, K, **424**, 294

carboxyatractyloside, Structure of mitochondrial ADP/ATP carrier in complex with carboxyatractyloside, *Article*, Pebay-Peyroula, E, Dahout-Gonzalez, C, Kahn, R, Trézéguet, V, Lauquin, G J-M, Brandolin, G, **426**, 39

carcinogens, Tattoo effects may be more than skin deep, *News in brief*, **424**, 362

cardiac arrhythmias, Human genetics: Lost anchors cost lives, *News and views*, Nattel, S, **421**, 587

Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death, *Letter to Nature*, Mohler, P J, Schott, J-J, Gramolini, A O, Dilly, K W, Guatimosim, S, duBell, W H, Song, L-S, Haurogne, K, Kyndt, F, Ali, M E, Rogers, T B, Lederer, W J, Escande, D, Le Marec, H, Bennett, V, **421**, 634

cardiogenesis, Intracardiac fluid forces are an essential epigenetic factor for embryonic cardiogenesis, *Letter to Nature*, Hove, J R, Koster, R W, Forouhar, A S, Acevedo-Bolton, G, Fraser, S E, Gharib, M, **421**, 172

cardiomyocytes, Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes, *Letter to Nature*, Alvarez-Dolado, M, Pardal, R, Garcia-Verdugo, J M, Fike, J R, Lee, H O, Pfeffer, K, Lois, C, Morrison, S J, Alvarez-Buylla, A, **425**, 968

cardiovascular biology, Cardiovascular biology: Chilled-out platelets, *News and views*, Pearson, H, **421**, 331

Cardiovascular biology: Signalling silenced, *News and views*, Conway, E M, Carmeliet, P, **425**, 139

cardiovascular system, WAVE2 is required for directed cell migration and cardiovascular development, *Letter to Nature*, Yamazaki, D, Suetsugu, S, Miki, H, Kataoka, Y, Nishikawa, S-I, Fujiwara, T, Yoshida, N, Takenawa, T, **424**, 452

careers, A career in sport? I'd rather be on the bench, *News in brief*, **423**, 374

Caribbean, Niche lability in the evolution of a Caribbean lizard community, *Letter to Nature*, Losos, J B, Leal, M, Glor, R E, de Queiroz, K, Hertz, P E, Rodriguez Schettino, L, Lara, A C, Jackman, T R, Larson, A, **424**, 542

Carlson, James, Mathematics institute appoints new number one, *News in brief*, **423**, 108

Carnivora, Single of origin of Malagasy Carnivora from an African ancestor, *Letter to Nature*, Yoder, A D, Burns, M M, Zehr, S, Delefosse, T, Veron, G, Goodman, S M, Flynn, J J, **421**, 734

carnivores, Captivity effects on wide-ranging carnivores, *Brief communication*, Clubb, R, Mason, G, **425**, 473

carpels, Assessing the redundancy of MADS-box genes during carpel and ovule development, *Letter to Nature*, Pinyopich, A, Ditta, G S, Savidge, B, Liljegren, S J, Baumann, E, Wisman, E, Yanofsky, M F, **424**, 85

Carroll, Sean, Charmed by snakes — Sean Carroll, *Lifelines*, **423**, 807

Cartagena Protocol on Biosafety, Concern about Japan's unclear biotech regulations, *Correspondence*, Watanabe, K N, **421**, 689

Pacific island tips balance in favour of biosafety protocol, *News in brief*, **423**, 794

cartilage, The complexities of skeletal biology, *Insight overview*, Karsenty, G, **423**, 316

Deciphering skeletal patterning: clues from the limb, *Insight review article*, Mariani, F V, Martin, G R, **423**, 319

The genetic basis for skeletal diseases, *Insight review article*, Zelzer, E, Olsen, B R, **423**, 343

caspases, Suppression of CED-3-independent apoptosis by mitochondrial βNAC in *Caenorhabditis elegans*, *Letter to Nature*, Bloss, T A, Witze, E S, Rothman, J H, **424**, 1066

Cassini spacecraft, A test of general relativity using radio links with the Cassini spacecraft, *Letter to Nature*, Bertotti, B, Iess, L, Tortora, P, **425**, 374

caste differentiation, Complex hybrid origin of genetic caste determination in harvester ants, *Letter to Nature*, Helms Cahan, S, Keller, L, **424**, 306

catalase, Retraction: A cytosolic catalase is needed to extend adult lifespan in *C. elegans daf-C* and *clk-1* mutant, *Letter to Nature*, Taub, J, Lau, J F, Ma, C, Hahn, J H, Hoque, R, Rothblatt, J, Chalfie, M, **421**, 764

catalysis, Catalysis: A greener solution, *News and views*, Leitner, W, **423**, 930

catalysts, Dissociative hydrogen adsorption on palladium requires aggregates of three or more vacancies, *Letter to Nature*, Mitsul, T, Rose, M K, Fomin, E, Ogletree, D F, Salmeron, M, **422**, 705

Catalyst hunt accelerates, *News and views*, Percec, V, **424**, 135

Hydrogen bonding: Single enantiomers from a chiral-alcohol catalyst, *Brief communication*, Huang, Y, Unni, A K, Thadani, A N, Rawal, V H, **424**, 146

A recyclable catalyst that precipitates at the end of the reaction, *Letter to Nature*, Dioumaev, V K, Bullock, R M, **424**, 530

Epoxidation of polybutadiene by a topologically linked catalyst, *Letter to Nature*, Thordarson, P, Bijsterveld, E J A, Rowan, A E, Nolte, R J M, **424**, 915

A combustion-free methodology for synthesizing zeolites and zeolite-like materials, *Letter to Nature*, Lee, H, Zones, S I, Davis, M E, **425**, 385

Controlling anisotropic nanoparticle growth through plasmon excitation, *Letter to Nature*, Jin, R, Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A, **425**, 487

Enantiospecific electrodeposition of a chiral catalyst, *Letter to Nature*, Switzer, J A, Kothari, H M, Poizot, P, Nakanishi, S, Bohannan, E W, **425**, 490

cataract, Nuclear cataract caused by a lack of DNA degradation in the mouse eye lens, *Letter to Nature*, Nishimoto, S, Kawane, K, Watanabe-Fukunaga, R, Fukuyama, H, Ohsawa, Y, Uchiyama, Y, Hashida, N, Ohguro, N, Tano, Y, Morimoto, T, Fukuda, Y, Nagata, S, **424**, 1071

catch bonds, Direct observation of catch bonds involving cell-adhesion molecules, *Letter to Nature*, Marshall, B T, Long, M, Piper, J W, Yago, T, McEver, R P, Zhu, C, **423**, 190

catenanes, Unidirectional rotation in a mechanically interlocked molecular rotor, *Letter to Nature*, Leigh, D A, Wong, J K Y, Dehez, F, Zerbetto, F, **424**, 174

β-catenin, Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **422**, 317

Chibby, a nuclear β-catenin-associated antagonist of the Wnt/Wingless pathway, *Letter to Nature*, Takemaru, K-I, Yamaguchi, S, Lee, Y S, Zhang, Y, Carthew, R W, Moon, R T, **422**, 905

Erratum: Links between signal transduction, transcription and

adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **424**, 974
  The Wnt/β-catenin pathway regulates cardiac valve formation, *Letter to Nature*, Hurlstone, A F L, Haramis, A-P G, Wienholds, E, Begthel, H, Korving, J, van Eeden, F, Cuppen, E, Zivkovic, D, Plasterk, R H A, Clevers, H, **425**, 633
  An ancient role for nuclear β-catenin in the evolution of axial polarity and germ layer segregation, *Letter to Nature*, Wikramanayake, A H, Hong, M, Lee, P N, Pang, K, Byrum, C A, Bince, J M, Xu, R, Martindale, M Q, **426**, 446
caterpillars, Ecology: Ecosystem engineering, *News and views*, Whitfield, J, **422**, 487
  Plant physiology, *News and views*, Surridge, C, **424**, 385
Catlin, Don, No dope, *News feature*, Knight, J, **426**, 114
cats, Poorly pets to provide early warning in war on bioterror, *News in brief*, **421**, 882
  Pet theory comes to the fore in fight against SARS, *News*, Abbott, A, **423**, 576
  SARS virus infection of cats and ferrets, *Brief communication*, Martina, B E E, Haagmans, B L, Kuiken, T, Fouchier, R A M, Rimmelzwaan, G F, van Amerongen, G, Peiris, J S M, Lim, W, Osterhaus, A D M E, **425**, 915
cattle, How the Cows Turned Mad, Schwartz, M, Schneider, E, *Book review by* Race, R E, **423**, 118
caustic soda, Chemical catastrophe poisons Brazilian rivers, *News in brief*, **422**, 552
cave paintings, Archaeology: Art of the ancient, *News and views*, Sinclair, A, **426**, 774
caveloin, Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37
CBFs, Plant biology: Ice on top, *News and views*, Hemmels, M-T, **422**, 677
CD3 cells, Activation of human CD4+ cells with CD3 and CD46 induces a T-regulatory cell 1 phenotype, *Letter to Nature*, Kemper, C, Chan, A C, Green, J M, Brett, K A, Murphy, K M, Atkinson, J P, **421**, 388
CD4 cells, Activation of human CD4$^+$ cells with CD3 and CD46 induces a T-regulatory cell 1 phenotype, *Letter to Nature*, Kemper, C, Chan, A C, Green, J M, Brett, K A, Murphy, K M, Atkinson, J P, **421**, 388
  CD4$^+$ T cells are required for secondary expansion and memory in CD8$^+$ T lymphocytes, *Letter to Nature*, Janssen, E M, Lemmens, E E, Wolfe, T, Christen, U, von Herrath, M G, Schoenberger, S P, **421**, 852
  The gene product Murr1 restricts HIV-1 replication in resting CD4$^+$ lymphocytes, *Letter to Nature*, Ganesh, L, Burstein, E, Guha-Niyogi, A, Louder, M K, Mascola, J R, Klomp, L W J, Wijmenga, C, Duckett, C S, Nabel, G J, **426**, 853
CD8 cells, CD4$^+$ T cells are required for secondary expansion and memory in CD8$^+$ T lymphocytes, *Letter to Nature*, Janssen, E M, Lemmens, E E, Wolfe, T, Christen, U, von Herrath, M G, Schoenberger, S P, **421**, 852
  Addendum: HIV-1 superinfection despite broad CD8$^+$ T-cell responses containing replication of the primary virus, *Letter to Nature*, Altfeld, M, Allen, T M, Yu, X G, Johnston, M N, Agrawal, D, Korber, B T, Montefiori, D C, O'Connor, D H, Davis, B T, Lee, P K, Maier, E L, Harlow, J, Goulder, P J R, Brander, C, Rosenberg, E S, Walker, B D, **423**, 461
  Selective imprinting of gut-homing T cells by Peyer's patch dendritic cells, *Letter to Nature*, Mora, J R, Bono, M R, Manjunath, N, Weninger, W, Cavanagh, L L, Rosemblatt, M, von Andrian, U H, **424**, 88
CD40L, HIV-1 Nef intersects the macrophage CD40L signalling pathway to promote resting-cell infection, *Letter to Nature*, Swingler, S, Brichacek, B, Jacque, J-M, Ulich, C, Zhou, J, Stevenson, M, **424**, 213
CD46 cells, Activation of human CD4$^+$ cells with CD3 and CD46 induces a T-regulatory cell 1 phenotype, *Letter to Nature*, Kemper, C, Chan, A C, Green, J M, Brett, K A, Murphy, K M, Atkinson, J P, **421**, 388
Cdc6 replication protein, Corrigendum: Cdc6 cooperates with Sic1 and Hct1 to inactivate mitotic cyclin-dependent kinases, *Letter to Nature*, Calzada, A, Sacristan, M, Sanchez, E, Bueno, A, **426**, 584
CDC20, Cks1-dependent proteasome recruitment and activation of *CDC20* transcription in budding yeast, *Letter to Nature*, Morris, M C, Kaiser, P, Rudyak, S, Baskerville, C, Watson, M H, Reed, S I, **423**, 1009
Cdc25A phosphatase, Degradation of Cdc25A by β-TrCP during S phase and in response to DNA damage, *Letter to Nature*, Busino, L, Donzelli, M, Chiesa, M, Guardavaccaro, D, Ganoth, D, Dorrello, N V, Hershko, A, Pagano, M, Draetta, G F, **426**, 87
Cdc42, Cdc42 regulates GSK-3β and adenomatous polyposis coli to control cell polarity, *Letter to Nature*, Etienne-Manneville, S, Hall, A, **421**, 753
Cdk7, Xpd/Ercc2 regulates CAK activity and mitotic progression, *Letter to Nature*, Chen, J, Larochelle, S, Li, X, Suter, B, **424**, 228
***cdx4* gene**, *cdx4* mutants fail to specify blood progenitors and can be rescued by multiple *hox* genes, *Letter to Nature*, Davidson, A J, Ernst, P, Wang, Y, Dekens, M P S, Kingsley, P D, Palis, J, Korsmeyer, S J, Daley, G Q, Zon, L I, **425**, 300
Cell, Search comes to an end as *Cell* fills editor's chair, *News in brief*, **425**, 552
cell adhesion molecules, α-Neurexins couple Ca^{2+} channels to synaptic vesicle exocytosis, *Article*, Missler, M, Zhang, W, Rohlmann, A, Kattenstroth, G, Hammer, R E, Gottmann, K, Sudhof, T C, **423**, 939
cell assemblies, Organization of cell assemblies in the hippocampus, *Letter to Nature*, Harris, K D, Csicsvari, J, Hirase, H, Dragol, G, Buzsáki, G, **424**, 552
cell biology, Cell Biology, Pollard, T, Earnshaw, W, *Book review by* Howard, J, **421**, 115
  Cell biology: Tubulin acetylation and cell motility, *Brief communication*, Palazzo, A, Ackerman, B, Gundersen, G G, **421**, 230
  Beyond the double helix, *News feature*, Pearson, H, **421**, 310
  Watson and DNA: Making a Scientific Revolution, McElheny, V K, *Book review by* Gilbert, W, **421**, 315
  The eternal molecule, *Feature*, Dennis, C, Campbell, P, **421**, 396
  Feature: Quiet debut for the double helix, *Feature*, Olby, R, **421**, 402
  Feature: Portrait of a molecule, *Feature*, Ball, P, **421**, 421
  UK cell biologist takes pole position at Rockefeller, *News*, Check, E, **421**, 461
  Cell biology: Double trouble with mutant p53, *News and views*, Heemels, M-T, **421**, 709
  NASA seeks inspiration from microscopic views of life, *News*, Knight, J, **421**, 878
  Cell biology: Prion protein, too, shall pass, *News and views*, Bucci, M, **421**, 907
  Constellations in a cellular universe, *Commentary*, Aebersold, R, **422**, 115
  From genomics to proteomics, *Insight overview*, Tyers, M, Mann, M, **422**, 193
  Mass spectrometry-based proteomics, *Insight review article*, Aebersold, R, Mann, M, **422**, 198
  Protein analysis on a proteomic scale, *Insight review article*, Phizicky, E, Bastiaens, P I H, Zhu, H, Snyder, M, Fields, S, **422**, 208
  From words to literature in structural proteomics, *Insight review article*, Sali, A, Glaeser, R, Earnest, T, Baumeister, W, **422**, 216
  Cell biology: Muscle mice, *News and views*, Pilcher, H R, **422**, 393
  Cell biology: Tumour suppressors in the wrecking yard, *News and views*, Plicher, H R, **422**, 487
  Cell biology: Developmental predisposition to cancer, *Brief communication*, Frank, S A, Nowak, M A, **422**, 494
  PAC1 phosphatase is a transcription target of p53 in signalling apoptosis and growth suppression, *Letter to Nature*, Yin, Y, Liu, Y-X, Jin, Y J, Hall, E J, Barrett, J C, **422**, 527
  Cell biology: Fast-track for actin, *News and views*, Bucci, M, **422**, 577
  Cell biology: Torpedo smart gel, *News and views*, Pilcher, H R, **423**, 30
  Dying cells dragged screaming under the microscope, *News*, Zandonella, C, **423**, 106
  Cell biology: Patches for wounded muscle, *News and views*, Ellis, J A, **423**, 129
  Cell biology: Drug resistance lies within, *News and views*, Pearson, H, **423**, 134
  Corrigendum: Short interfering RNA confers intracellular antiviral immunity in human cells, *Letter to Nature*, Gitlin, L, Karelsky, S, Andino, R, **423**, 197
  Setback forces rethink for cell signalling alliance, *News in brief*, **423**, 472
  Cell biology: Rafting for dear life, *News and views*, Heemels, M-T, **423**, 496
  Cancer: Out of air is not out of action, *News and views*, Bottaro, D P, Liotta, L A, **423**, 593
  Cell biology: Flies get rhythm, *News and views*, Pilcher, H R, **423**, 935
  Cell biology: The molecules that make muscle, *News and views*, Gullberg, D, **424**, 138
  Cell biology: Golgi glue, *News and views*, Heemels, M-T, **424**, 265
  Synthetic sex cells, *News feature*, Dennis, C, **424**, 364
  Obituary: Ira Herskowitz (1946–2003), *News and views*, Johnson, A, Ptashne, M, **424**, 384
  Cell biology: Moving inside membranes, *News and views*, Mihara, K, **424**, 505
  Cell biology: Channel taps magnesium, *News and views*, Pearson, H, **424**, 630
  Understanding cells, *Concepts*, Nurse, P, **424**, 883
  Cell biology: Tumour jailbreak, *News and views*, Yamada, K M, **424**, 889
  Cell biology: Metabolism meets death, *News and views*, Downward, J, **424**, 896
  Cell biology: Join the crowd, *News and views*, Ellis, R J, Minton, A P, **425**, 27
  Professional secrets, *News and views*, Roy, C R, **425**, 351
  Cell biology: The hippo hypothesis, *News and views*, Rothenberg, M E, Jan, Y-N, **425**, 469
  Cell biology: It's the old story of yeast, *News and views*, Marte, B, **425**, 472
  Cell biology: Stretch and split, *News and views*, Pearson, H, **425**, 914
  Cell biology: Enlightened messages, *News and views*, Thomas, C, **426**, 27
  Cell biology: Arrested replication, *News and views*, Eggleston, A K, **426**, 28
  Degradation of Cdc25A by β-TrCP during S phase and in response to DNA damage, *Letter to Nature*, Busino, L, Donzelli, M, Chiesa, M, Guardavaccaro, D, Ganoth, D, Dorrello, N V, Hershko, A, Pagano, M, Draetta, G F, **426**, 87
  It's a scoop!, *News feature*, Pearson, H, **426**, 222
  Cell biology: Thanks for the memory, *News and views*, Sible, J C, **426**, 392
  Proteomic characterization of the human centrosome by protein correlation profiling, *Letter to Nature*, Andersen, J S, Wilkinson, C J, Mayor, T, Mortensen, P, Nigg, E A, Mann, M, **426**, 570
  Membrane proteins: Channel voyager makes waves, *News feature*, Abbott, A, **426**, 755
  Cell biology: Earthworms and lipid couriers, *News and views*, Munro, S, **426**, 775
  Molecular machinery for non-vesicular trafficking of ceramide, *Article*, Hanada, K, Kumagai, K, Yasuda, S, Miura, Y, Kawano, M, Fukasawa, M, Nishijima, M, **426**, 803
cell biology, plants, Plant cell biology: Ancients rings, *News and views*, Surridge, C, **422**, 275
cell culture, Goodbye, flat biology?, *Opinion*, **424**, 861
  Biology's new dimension, *News feature*, Abbott, A, **424**, 870
  The matrix, reinvented, *News feature*, Cyranoski, D, **424**, 870
cell cycle, Cell cycle: Degradation ensures integrity, *News and views*, Li, A, Blow, J J, **423**, 818
  Acute mutation of retinoblastoma gene function is sufficient for cell cycle re-entry, *Letter to Nature*, Sage, J, Miller, A L, Pérez-Mancera, P A, Wysocki, J M, Jacks, T, **424**, 223
  Celebrating 50 years of the cell cycle, *Correspondence*, Dubrovsky, J G, Ivanov, V B, **426**, 759
  Cell cycle: Passenger acrobatics, *News and views*, Higuchi, T, Uhlmann, F, **426**, 780
cell death, *See* **apoptosis**
cell development, Developmental biology: Tools for single-cell analysis, *News and views*, Pilcher, H R, **422**, 275
cell division, The Par complex directs asymmetric cell division by phosphorylating the cytoskeletal protein Lgl, *Letter to Nature*, Betschinger, J, Mechtler, K, Knoblich, J A, **422**, 326
  Cell division, *Insight review article*, Scholey, J M, Brust-Mascher, I, Mogilner, A, **422**, 746
  Stem cells: Self-renewal writ in blood, *News and views*, Dick, J E, **423**, 231
  Cancer: Brake for cell division, *News and views*, Heemels, M-T, **423**, 238
  Cell division: Genome maintenance, *News and views*, Raff, J W, **423**, 493
  Cell cycle: Degradation ensures integrity, *News and views*, Li, A, Blow, J J, **423**, 818
  Determining the position of the cell division plane, *Letter to Nature*, Canman, J C, Cameron, L A, Maddox, P S, Straight, A, Tirnauer, J S, Mitchison, T J, Fang, G, Kapoor, T M, Salmon, E D, **424**, 1074
  S-phase checkpoint proteins Tof1 and Mrc1 form a stable replication-pausing complex, *Letter to Nature*, Katou, Y, Kanoh, Y, Bando, M, Noguchi, H, Tanaka, H, Ashikari, T, Sugimoto, K, Shirahige, K, **424**, 1078
  Stem cells: To be and not to be, *News and views*, Lin, H, **425**, 353
  Targets of the cyclin-dependent kinase Cdk1, *Letter to Nature*, Ubersax, J A, Woodbury, E L, Quang, P N, Paraz, M, Blethrow, J D, Shah, K, Shokat, K M, Morgan, D O, **425**, 859
cell fate, A positive-feedback-based bistable 'memory module' that governs a cell fate decision, *Letter to Nature*, Xiong, W, Ferrell Jr, J E, **426**, 460
cell fusion, Stem cells: Fusion brings down barriers, *News and views*, Medvinsky, A, Smith, A, **422**, 823
  Cell fusion is the principal source of bone-marrow-derived hepatocytes, *Letter to Nature*, Wang, X, Willenbring, H, Akkari, Y, Torimaru, Y, Foster, M, Al-Dhalimy, M, Lagasse, E, Finegold, M, Olson, S, Grompe, M, **422**, 897
  Transplanted bone marrow regenerates liver by cell fusion, *Letter to Nature*, Vassilopoulos, G, Wang, P-R, Russell, D W, **422**, 901
cell membrane, Cell biology: Stretch and split, *News and views*, Pearson, H, **425**, 914
cell migration, JNK phosphorylates paxillin and regulates cell migration, *Letter to Nature*, Huang, C, Rajfur, Z, Borchers, C, Schaller, M D, Jacobson, K, **424**, 219
cell motility, Cell biology: Tubulin acetylation and cell motility, *Brief communication*, Palazzo, A, Ackerman, B, Gundersen, G G, **421**, 230
  Cell motility: Making streams, *News and views*, Kessin, R H, **422**, 481
  WAVE2 is required for directed cell migration and cardiovascular development, *Letter to Nature*, Yamazaki, D, Suetsugu, S, Miki, H, Kataoka, Y, Nishikawa, S-I, Fujiwara, T, Yoshida, N, Takenawa, T, **424**, 452
cell plasticity, Flexible arrangement, *Concepts*, Theise, N D, Wilmut, I, **425**, 21
cell polarity, Cdc42 regulates GSK-3β and adenomatous polyposis coli to control cell polarity, *Letter to Nature*, Etienne-Manneville, S, Hall, A, **421**, 753
  Cell polarity: From embryo to axon, *News and views*, Rolls, M M, Doe, C Q, **421**, 905
  Adaptation of core mechanisms to generate cell polarity, *Insight review article*, Nelson, W J, **422**, 766
cell proliferation, Cell biology: The hippo hypothesis, *News and views*, Rothenberg, M E, Jan, Y-N, **425**, 469
cell signalling, Signal transduction: Life on Mars, cellularly speaking, *News and views*, Di Fiore, P P, **424**, 624
  Cell signalling: Cell survival and a Gadd-45-factor deficiency, *Brief communication*, Amanullah, A, Azam, N, Balliet, A, Hollander, C, Hoffman, B, Fornace Jr, A, Liebermann, D, **424**, 741
  Reply: Cell signalling: Cell survival and a Gadd-45-factor deficiency, *Brief communication*, Zazzeroni, F, Papa, S, De Smaele, E, Franzoso, G, **424**, 742
  Immunology: Dangerous liaisons, *News and views*, Heath, W R, Carbone, F R, **425**, 460
cellular networks, Cellular networks underlying human spatial navigation, *Letter to Nature*, Ekstrom, A D, Kahana, M J, Caplan, J B, Fields, T A, Isham, E A, Newman, E L, Fried, I, **425**, 184
cellular proteins, Signal transduction: Molecular monogamy, *News and views*, Endy, D, Yaffe, M B, **426**, 614
cellular signalling, Optimization of specificity in a cellular protein interaction network by negative selection, *Letter to Nature*, Zarrinpar, A, Park, S-H, Lim, W A, **426**, 676

cellulose, Chemistry: Cellulose stacks up, *News and views*, Jarvis, M, **426**, 611

Celtic Explorer, Stealth ship sets sail for a quiet life fishing for data, *News*, Moore, J, **423**, 7

Cenozoic era, Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO_2, *Letter to Nature*, DeConto, R M, Pollard, D, **421**, 245

  Cenozoic climate change as a possible cause for the rise of the Andes, *Article*, Lamb, S, Davis, P, **425**, 792

Census of Marine Life, Marine survey sees net gain in number of fish species, *News*, Mason, B, **425**, 889

central nervous system, A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917

  Motor neuron columnar fate imposed by sequential phases of Hox-c activity, *Article*, Dasen, J S, Liu, J-P, Jessell, T M, **425**, 926

  See also **Brain**

centre–surround inhibition, Centre–surround inhibition among olfactory bulb glomeruli, *Article*, Aungst, J L, Heyward, P M, Puche, A C, Karnup, S V, Hayar, A, Szabo, G, Shipley, M T, **426**, 623

centre–surround receptive field organization, Perceptual consequences of centre-surround antagonism in visual motion processing, *Letter to Nature*, Tadin, D, Lappin, S, Gilroy, L A, Blake, R, **424**, 312

centrosome, Proteomic characterization of the human centrosome by protein correlation profiling, *Letter to Nature*, Andersen, J S, Wilkinson, C J, Mayor, T, Mortensen, P, Nigg, E A, Mann, M, **426**, 570

cephalopods, Cephalopod *Hox* genes and the origin of morphological novelties, *Letter to Nature*, Lee, P N, Callaerts, P, de Couet, H G, Martindale, M Q, **424**, 1061

ceramide, Cell biology: Earthworms and lipid couriers, *News and views*, Munro, S, **426**, 775

  Molecular machinery for non-vesicular trafficking of ceramide, *Article*, Hanada, K, Kumagai, K, Yasuda, S, Miura, Y, Kawano, M, Fukasawa, M, Nishijima, M, **426**, 803

cerebral cortex, A spatially organized representation of colour in macaque cortical area V2, *Letter to Nature*, Xiao, Y, Wang, Y, Felleman, D J, **421**, 535

  Attractor dynamics of network UP states in the neocortex, *Letter to Nature*, Cossart, R, Aronov, D, Yuste, R, **423**, 283

  Turning on and off recurrent balanced cortical activity, *Letter to Nature*, Shu, Y, Hasenstaub, A, McCormick, D A, **423**, 288

  Cortex and Mind: Unifying Cognition, Fuster, J M, *Book review by* Martin, K, **423**, 383

  Analgesia and hyperalgesia from GABA-mediated modulation of the cerebral cortex, *Letter to Nature*, Jasmin, L, Rabkin, S D, Granato, A, Boudah, A, Ohara, P T, **424**, 316

CERN, Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108

  Tomorrow's computing today, *News feature*, Butler, D, **422**, 799

  Towards a clean collider, *Opinion*, **426**, 105

  1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761

CERT protein, Cell biology: Earthworms and lipid couriers, *News and views*, Munro, S, **426**, 775

  Molecular machinery for non-vesicular trafficking of ceramide, *Article*, Hanada, K, Kumagai, K, Yasuda, S, Miura, Y, Kawano, M, Fukasawa, M, Nishijima, M, **426**, 803

cetaceans, Gas-bubble lesions in stranded cetaceans, *Brief communication*, Jepson, P D, Arbelo, M, Deaville, R, Patterson, I A P, Castro, P, Baker, J R, Degollada, E, Ross, H M, Herraez, P, Pocknell, A M, Rodriguez, F, Howie, F E, Espinosa, A, Reid, R J, Jaber, J R, Martin, V, Cunningham, A A, Fernandez, A, **425**, 575

Chagas' disease, Mechanism of genetic exchange in American trypanosomes, *Letter to Nature*, Gaunt, M W, Yeo, M, Frame, I A, Stothard, J R, Carrasco, H J, Taylor, M C, Mena, S S, Veazey, P, Miles, G A J, Acosta, N, Rojas de Arias, A, Miles, M A, **421**, 936

chalcogenides, Synthetic design of crystalline inorganic chalcogenides exhibiting fast-ion conductivity, *Letter to Nature*, Zheng, N, Bu, X, Feng, P, **426**, 428

Challenge Program on Water and Food, Money pours in for work to boost crop yield in droughts, *News in brief*, **426**, 8

Chandrayan-1 space mission, India launches plan for mission to map the moon, *News*, Jayaraman, K S, **424**, 985

chaos theory, Nonlinear dynamics: Synchronization from chaos, *News and views*, Ashwin, P, **422**, 384

  Chaos-assisted capture of irregular moons, *Letter to Nature*, Astakhov, S A, Burbanks, A D, Wiggins, S, Farrelly, D, **423**, 264

  Turbulence: Suddenly it's chaos, *News and views*, Pickett, G, **424**, 1002

chaotic mixing, Uniform resonant chaotic mixing in fluid flows, *Letter to Nature*, Solomon, T H, Mezic, I, **425**, 376

chaotic systems, Nonlinear dynamics: Chaos relatively robust, *News and views*, Ball, P, **426**, 784

chaperones, Quality control in the endoplasmic reticulum protein factory, *Insight progress*, Sitia, R, Braakman, I, **426**, 891

  Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905

chaperonin, Chaperonin-mediated stabilization and ATP-triggered release of semiconductor nanoparticles, *Letter to Nature*, Ishii, D, Kinbara, K, Ishida, Y, Ishii, N, Okochi, M, Yohda, M, Aida, T, **423**, 628

charge coupled devices, A broadband superconducting detector suitable for use in large arrays, *Letter to Nature*, Day, P K, LeDuc, H G, Mazin, B A, Vayonakis, A, Zmuidzinas, J, **425**, 817

charities, Charities chip in to save chromosome institute, *News in brief*, **423**, 677

  Molecular medic to lead cancer research giant, *News in brief*, **423**, 794

  Raiding the medicine cabinet, *News feature*, Butler, D, **424**, 10

charm quarks, Revamped accelerator seeks quark's secrets, *News*, Brumfiel, G, **422**, 248

checkpoint proteins, S-phase checkpoint proteins Tof1 and Mrc1 form a stable replication-pausing complex, *Letter to Nature*, Katou, Y, Kanoh, Y, Bando, M, Noguchi, H, Tanaka, H, Ashikari, T, Sugimoto, K, Shirahige, K, **424**, 1078

  Cell biology: Arrested replication, *News and views*, Eggleston, A K, **426**, 28

chemical kinetics, Allometry: How reliable is the biological time clock?, *Brief communication*, Lopez-Urrutia, A, **424**, 269

  Reply: Allometry: How reliable is the biological time clock?, *Brief communication*, Gillooly, J F, Charnov, E L, Brown, J H, Savage, V M, West, G B, **424**, 270

chemical mechanical planarization, Microelectronics: Clean-up for copper chips, *News and views*, Ball, P, **422**, 677

chemical physics, Chemical physics: How to keep dry in water, *News and views*, Ball, P, **423**, 25

chemical spills, Chemical catastrophe poisons Brazilian rivers, *News in brief*, **422**, 552

chemical synthesis, Out of the kitchen, *News feature*, Adam, D, **421**, 571

chemical testing, Time runs short for opponents of chemical-testing rules, *News*, Murphy, G, **424**, 241

chemical weapons, Inspectors face uphill struggle in search for banned weapons in Iraq, *News*, McDowell, N, **422**, 362

  Critics slam US over plans to use riot-control chemicals in the Gulf, *News*, Knight, J, **422**, 363

  Allies will expose Iraq's weapons, says Blix, *News*, Butler, D, **422**, 550

  US army attacked over published patent for 'bioweapons grenade', *News*, Check, E, **423**, 789

  Nerve-gas experiments will not go to court, *News in brief*, **424**, 244

chemical weapons, sensors, US Army plans assault on biotech frontline, *News in brief*, **422**, 106

Chemical Weapons Convention, Critics slam US over plans to use riot-control chemicals in the Gulf, *News*, Knight, J, **422**, 363

chemiosmotic coupling, The cost of living, *Concepts*, Rich, P, **421**, 583

chemistry, British chemists warned of impending stagnation, *News*, Adam, D, **421**, 100

  Out of the kitchen, *News feature*, Adam, D, **421**, 571

  The Art of Chemistry: Myths, Medicines and Materials, Greenberg, A, *Book review by* Emsley, J, **421**, 790

  Chemistry: Levitation lights up crystals, *News and views*, Helmer, M, **422**, 33

  Max Planck plans double blow to chemistry, *News*, Schiermeier, Q, **422**, 105

  Chemists' salaries turn south, *News*, Hoag, H, **422**, 650

  Dissociative hydrogen adsorption on palladium requires aggregates of three or more vacancies, *Letter to Nature*, Mitsui, T, Rose, M K, Fomin, E, Ogletree, D F, Salmeron, M, **422**, 705

  Wandering in the Gardens of the Mind: Peter Mitchell and the Making of Glynn, Prebble, J, Weber, B, *Book review by* Slater, E C, **422**, 816

  Magmatic events can produce rapid changes in hydrothermal vent chemistry, *Letter to Nature*, Lilley, M D, Butterfield, D A, Lupton, J E, Olson, E J, **422**, 878

  Folding at the speed limit, *Letter to Nature*, Yang, W Y, Gruebele, M, **423**, 193

  Synthetic chemistry: A perfect fit, *News and views*, Ramamurthy, V, **423**, 394

  Chemistry: Tips for moving single molecules, *News and views*, Jacobs, D C, **423**, 488

  Selectivity in vibrationally mediated single-molecule chemistry, *Letter to Nature*, Pascual, J I, Lorente, N, Song, Z, Conrad, H, Rust, H-P, **423**, 525

  Quantum Chemistry: At full stretch, *News and views*, Ball, P, **423**, 598

  Candid Science III: More Conversations with Famous Chemists, Hargittai, I, Hargittai, M, *Book review by* Greenberg, A, **423**, 687

  Chemistry: Krypton goes organic, *News and views*, Ball, P, **423**, 820

  Chemists seek image overhaul, *News*, Pearson, H, **425**, 227

  Chemists weigh up change to fundamental constant, *News in brief*, **425**, 336

  Synthetic chemistry: Ship reverses out of bottle, *News and views*, Corma, A, **425**, 356

  Chemistry: Mirrors in Flatland, *News and views*, Raval, R, **425**, 463

  Enantiospecific electrodeposition of a chiral catalyst, *Letter to Nature*, Switzer, J A, Kothari, H M, Poizot, P, Nakanishi, S, Bohannan, E W, **425**, 490

  Channel hoppers land chemistry Nobel, *News*, Giles, J, **425**, 651

  Chemists enthusiastic to embrace change, *Correspondence*, Busch, D, Pearce, E, **425**, 899

  Chemistry: Dendrimers set to self-destruct, *News and views*, Meijer, E W, van Genderen, M H P, **426**, 128

  Chemistry: Internal combustion, *News and views*, Reimer, J, **426**, 508

  Chemistry: Cellulose stacks up, *News and views*, Jarvis, M, **426**, 611

chemoattraction, A zebrafish homologue of the chemokine receptor *Cxcr4* is a germ-cell guidance receptor, *Letter to Nature*, Knaut, H, Werz, C, Geisler, R, Busch-Nentwich, E, Dahm, R, Frohnhofer, H-G, Geiger, H, Gilmour, D, Holley, S, Hooge, J, Julich, D, Maderspacher, F, Maischein, H-M, Neumann, C, Nicolson, T, Roehl, H, Schonberger, U, Seiler, C, Sollner, C, Sonawane, M, van Bebber, F, Wehner, A, Weiler, C, Erkert, P, Habeck, H, Hagner, U, Hennen Kaps, C E, Kirchner, A, Koblizek, T, Langheinrich, U, Loeschke, C, Metzger, C, Nordin, R, Odenthal, J, Pezzuti, M, Schlombs, K, deSantana-Stamm, J, Trowe, T, Vacun, G, Walderich, B, Walker, A, Weiler, C, Nusslein-Volhard, C, **421**, 279

chemokines, Immunology: Mobilizing the army, *News and views*, Shapiro, S D, **421**, 223

  Developmental biology: Germ-cell attraction, *News and views*, Kunwar, P S, Lehmann, R, **421**, 226

  A zebrafish homologue of the chemokine receptor *Cxcr4* is a germ-cell guidance receptor, *Letter to Nature*, Knaut, H, Werz, C, Geisler, R, Busch-Nentwich, E, Dahm, R, Frohnhofer, H-G, Geiger, H, Gilmour, D, Holley, S, Hooge, J, Julich, D, Maderspacher, F, Maischein, H-M, Neumann, C, Nicolson, T, Roehl, H, Schonberger, U, Seiler, C, Sollner, C, Sonawane, M, van Bebber, F, Wehner, A, Weiler, C, Erkert, P, Habeck, H, Hagner, U, Hennen Kaps, C E, Kirchner, A, Koblizek, T, Langheinrich, U, Loeschke, C, Metzger, C, Nordin, R, Odenthal, J, Pezzuti, M, Schlombs, K, deSantana-Stamm, J, Trowe, T, Vacun, G, Walderich, B, Walker, A, Weiler, C, Nusslein-Volhard, C, **421**, 279

  Immunology: Lone rangers, *News and views*, Schuldt, A, **422**, 132

chemotaxis, Cell motility: Making streams, *News and views*, Kessin, R H, **422**, 481

Chernobyl, Unnatural coverage of Chernobyl tragedy, *Correspondence*, Pergams, O R W, **425**, 763

chewing, Ecology: News of Chews, *News and views*, Whitfield, J, **423**, 134

Chiappe, Luis, Classified information — Luis Chiappe, *Lifelines*, **424**, 19

Chibby, Chibby, a nuclear β-catenin-associated antagonist of the Wnt/Wingless pathway, *Letter to Nature*, Takemaru, K-I, Yamaguchi, S, Lee, Y S, Zhang, Y, Carthew, R W, Moon, R T, **422**, 905

Chicxulub crater, Hot tempers, hard core, *News feature*, Dalton, R, **425**, 13

Chien, Ken, From the grapevine — Ken Chien, *Lifelines*, **426**, 771

children, British panel bans use of antidepressant to treat children, *News*, Abbott, A, **423**, 792

children's books, Kids' cartoon faces probe over drug tie-in deal, *News in brief*, **424**, 869

chimaeras, Biotech critic tries to sew up research on chimaeras, *News*, Check, E, **421**, 4

chimpanzees, Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551

  Catastrophic ape decline in western equatorial Africa, *Letter to Nature*, Walsh, P D, Abernethy, K A, Bermejo, M, Beyers, R, De Wachter, P, Ella Akou, M, Huijbregts, B, Idiata Mambounga, D, Kamdem Toham, A, Kilbourn, A M, Lahm, S A, Latour, S, Maisels, F, Mbina, C, Mihindou, Y, Ndong Obiang, S, Ntsame Effa, E, Starkey, M P, Telfer, P, Thibault, M, Tutin, C E G, White, L J T, Wilkie, D S, **422**, 611

  Chimp genome hints at little differences that make us human, *News in brief*, **426**, 746

China, China joins investigation of mystery pneumonia, *News*, Cyranoski, D, **422**, 459

  Chinese authorities admit mishandling of Guangdong crisis, *News*, Cyranoski, D, **422**, 548

  Environmental science: Shades of China, *News and views*, Clarke, T, **423**, 134

  Virus detectives seek source of SARS in China's wild animals, *News*, Cyranoski, D, Abbott, A, **423**, 467

  SARS triggers biomedical shake-up in China, *News*, Cyranoski, D, **425**, 333

  Secret garden opens up to public, *News*, Cyranoski, D, **425**, 333

  Researcher faces life in prison for revenge radiation poisoning, *News in brief*, **425**, 552

  China: From SARS to the stars, *News feature*, Cyranoski, D, **426**, 752

China, animal experimentation, China launches primate centre to broaden medical use of monkeys, *News*, Cyranoski, D, **424**, 239

China, biodiversity, Biodiversity schemes take root in China, *News*, Cyranoski, D, **425**, 890

China, bioethics, Are China's bioethics under control?, *News*, Cyranoski, D, **424**, 239

China, dust storms, China plans clean sweep on dust storms, *News*, Cyranoski, D, **421**, 101

China, environmental issues, United Nations set help China plan its environmental future, *News in brief*, **425**, 336

China, fossils, Dinosaurs take to the air, *News and views*, Prum, R O, **421**, 323

  Four-winged dinosaurs from China, *Article*, Xu, X, Zhou, Z, Wang, X, Kuang, X, Zhang, F, Du, X, **421**, 335

  An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807

  Earliest known crown-group salamanders, *Letter to Nature*, Gao, K-Q, Shubin, N H, **422**, 424

China, nuclear fusion, China set to join international fusion experiment, *News in brief*, **421**, 306

China, proteomics, China takes centre stage for liver proteome, *News*, Cyranoski, D, **425**, 441

China, research funding, Overseas abuse of China's development, *Editorial*, **421**, 1

  Petition calls for clampdown on absentee Chinese researchers, *News*, Cyranoski, D, **421**, 3

China, SARS, *See* **Severe acute respiratory syndrome**

China, space exploration, China plays cards close to its chest over manned space shot, *News*, Cyranoski, D, **425**, 438

Islands make waves for Chinese space base, *News in brief*, **426**, 220

US on sidelines as China prepares for satellite launch, *News*, Reichhardt, T, **426**, 375

China, stem-cell research, Chinese fusion method promises fresh route to human stem cells, *News*, Dennis, C, **424**, 711

China, transgenic crops, A little protectionism goes a long way, *Opinion*, **422**, 99

Against the grain, *News feature*, Macilwain, C, **422**, 111

China, young scientists, Young guns shoot to the top in China's research revolution, *News*, Cyranoski, D, **425**, 113

chirality, Hydrogen bonding: Single enantiomers from a chiral-alcohol catalyst, *Brief communication*, Huang, Y, Unni, A K, Thadani, A N, Rawal, V H, **424**, 146

Chemistry: Mirrors in Flatland, *News and views*, Raval, R, **425**, 463

Enantiospecific electrodeposition of a chiral catalyst, *Letter to Nature*, Switzer, J A, Kothari, H M, Poizot, P, Nakanishi, S, Bohannan, E W, **425**, 490

Single-gene speciation by left-right reversal, *Brief communication*, Ueshima, R, Asami, T, **425**, 679

Chirality: Organic films with a twist, *News and views*, Ward, M D, **426**, 615

Chiron Corporation, Biotech headquarters hit by early morning pipe-bomb explosions, *News in brief*, **425**, 8

CHK2 protein, MDC1 is coupled to activated CHK2 in mammalian DNA damage response pathways, *Letter to Nature*, Lou, Z, Minter-Dykhouse, K, Wu, X, Chen, J, **421**, 957

Chlamydomonas reinhardtii, Hedgehog signalling in the mouse requires intraflagellar transport proteins, *Letter to Nature*, Huangfu, D, Liu, A, Rakeman, A S, Murcia, N S, Niswander, L, Anderson, K V, **426**, 83

chlorophyll, Crystal structure of plant photosystem I, *Article*, Ben-Shem, A, Frolow, F, Nelson, N, **426**, 630

chloroplasts, Chloroplast to nucleus communication triggered by accumulation of Mg-protoporphyrinIX, *Letter to Nature*, Strand, Å, Asami, T, Alonso, J, Ecker, J R, Chory, J, **421**, 79

Plant biology: Mobile plastid genes, *News and views*, Maliga, P, **422**, 31

Direct measurement of the transfer rate of chloroplast DNA into the nucleus, *Letter to Nature*, Huang, C Y, Ayliffe, M A, Timmis, J N, **422**, 72

Evolutionary conservation of biogenesis of β-barrel membrane proteins, *Letter to Nature*, Paschen, S A, Waizenegger, T, Stan, T, Preuss, M, Cyrklaff, M, Hell, K, Rapaport, D, Neupert, W, **426**, 862

chocolate, Plasma antioxidants from chocolate, *Brief communication*, Serafini, M, Bugianesi, R, Maiani, G, Valtuena, S, De Santis, S, Crozier, A, **424**, 1013

Plasma antioxidants: Health benefits of eating chocolate?, *Brief communication*, Halliwell, B, **426**, 787

choice, Freedom evolves, Dennett, D, *Book review by* Konner, M, **423**, 17

cholesterol, reverse transport, Ectopic β-chain of ATP synthase is an apolipoprotein A-I receptor in hepatic HDL endocytosis, *Letter to Nature*, Martinez, L O, Jacquet, S, Esteve, J-P, Rolland, C, Cabezon, E, Champagne, E, Pineau, T, Georgeaud, V, Walker, J E, Terce, F, Collet, X, Perret, B, Barbaras, R, **421**, 75

choline acetyltransferase, Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition, *Letter to Nature*, Buffelli, M, Burgess, R W, Feng, G, Lobe, C G, Lichtman, J W, Sanes, J R, **424**, 430

Chomsky, Noam, Constructing a Language: A Usage-Based Theory of Language Acquisition, *Book review*, Tomasello, M, Clark, E V, **425**, 768

chondrichthyans, The oldest articulated chondrichthyan from the Early Devonian period, *Letter to Nature*, Miller, R F, Cloutier, R, Turner, S, **425**, 501

chondrites, Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites, *Letter to Nature*, Bizzarro, M, Baker, J A, Haack, H, Ulfbeck, D, Rosing, M, **421**, 931

Interplanetary dust from the explosive dispersal of hydrated asteroids by impacts, *Letter to Nature*, Tomeoka, K, Kiriyama, K, Nakamura, K, Yamahana, Y, Sekine, T, **423**, 60

Photographic observations of Neuschwanstein, a second meteorite from the orbit of the Příbram chondrite, *Letter to Nature*, Spurný, P, Oberst, J, Heinlein, D, **423**, 151

A questioning of timing, *News and views*, Alexander, C, **423**, 691

Contemporaneous formation of chondrules and refractory inclusions in the early Solar System, *Letter to Nature*, Itoh, S, Yurimoto, H, **423**, 728

chondroitin, *Caenorhabditis elegans* early embryogenesis and vulval morphogenesis depend on chondroitin biosynthesis, *Letter to Nature*, Hwang, H-Y, Olson, S K, Esko, J D, Horvitz, H R, **423**, 439

Chondroitin proteoglycans are involved in cell division of *Caenorhabditis elegans*, *Letter to Nature*, Mizuguchi, S, Uyama, T, Kitagawa, H, Nomura, K H, Dejima, K, Gengyo, Ando, K, Mitani, S, Sugahara, K, Nomura, K, **423**, 443

chondrules, A questioning of timing, *News and views*, Alexander, C, **423**, 691

Contemporaneous formation of chondrules and refractory inclusions in the early Solar System, *Letter to Nature*, Itoh, S, Yurimoto, H, **423**, 728

chromatic contrast, Motion-induced spatial conflict, *Letter to Nature*, Arnold, D H, Johnston, A, **425**, 181

chromatin, Feature: Controlling the double helix, *Feature*, Felsenfeld, G, Groudine, M, **421**, 448

Molecular biology: Dynamics of condensed DNA, *News and views*, Heinrichs, A, **421**, 597

chromoproteins, Dimers of the N-terminal domain of phytochrome B are functional in the nucleus, *Letter to Nature*, Matsushita, T, Mochizuki, N, Nagatani, A, **424**, 571

chromosomal duplication, Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events, *Letter to Nature*, Bowers, J E, Chapman, B A, Rong, J, Paterson, A H, **422**, 433

chromosomal passengers, Cell cycle: Passenger acrobatics, *News and views*, Higuchi, T, Uhlmann, F, **426**, 780

chromosomal proteins, Gene regulation: Versatile assembler, *News and views*, Henikoff, S, **423**, 814

chromosome rearrangements, Speciation reversal, *News and views*, Wolfe, K, **422**, 25

chromosomes, The DNA sequence and analysis of human chromosome 14, *Article*, Heilig, R, Eckenberg, R, Petit, J-L *et al.*[1], **421**, 601

Cell division, *Insight review article*, Scholey, J M, Brust-Mascher, I, Mogilner, A, **422**, 746

The X in Sex: How the Chromosome Controls our Lives, Bainbridge, D, *Book review by* Marshall Graves, J A, **423**, 223

Y: The Descent of Men, Jones, S, *Book review by* Marshall Graves, J A, **423**, 223

Charities chip in to save chromosome institute, *News in brief*, **423**, 677

Genome biology: Tales of the Y chromosome, *News and views*, Willard, H F, **423**, 810

The male-specific region of the human Y chromosome is a mosaic of discrete sequence classes, *Article*, Skaletsky, H, Kuroda-Kawaguchi, T, Minx, P J, Cordum, H S, Hillier, L, Brown, L G, Repping, S, Pyntikova, T, Ali, J, Bieri, T, Chinwalla, A, Delehaunty, A, Delehaunty, K, Du, H, Fewell, G, Fulton, L, Fulton, R, Graves, T, Hou, S-F, Latrielle, P, Leonard, S, Mardis, E, Maupin, R, McPherson, J, Miner, T, Nash, W, Nguyen, C, Ozersky, P, Pepin, K, Rock, S, Rohlfing, T, Scott, K, Schultz, B, Strong, C, Tin-Wollam, A, Yang, S-P, Waterston, R H, Wilson, R K, Rozen, S, Page, D C, **423**, 825

Abundant gene conversion between arms of palindromes in human and ape Y chromosomes, *Letter to Nature*, Rozen, S, Skaletsky, H, Marszalek, J D, Minx, P J, Cordum, H S, Waterston, R H, Wilson, R K, Page, D C, **423**, 873

Telomeres: Taking the measure, *News and views*, Lundblad, V, **423**, 926

Chromosome cohesion is regulated by a clock gene paralogue TIM-1, *Letter to Nature*, Chan, R C, Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J, **423**, 1002

The DNA sequence of human chromosome 7, *Article*, Hillier, L W, Fulton, R S, Fulton, L A *et al.*[2], **424**, 157

Molecular biology: Telomere stutters superfluous, *News and views*, Pearson, H, **425**, 253

Six is seventh, *News and views*, Grimwood, J, Schmutz, J, **425**, 775

The DNA sequence and analysis of human chromosome 6, *Article*, Mungall, A J, Palmer, S A, Sims *et al.*[3], **425**, 805

chronic wasting disease, Horizontal prion transmission in mule deer, *Brief communication*, Miller, M W, Williams, E S, **425**, 35

chronobiology, Chronobiology: Biological Timekeeping, Dunlap, J C, Loros, J J, DeCoursey, P J, *Book review by* Palmer, J, **425**, 346

chronometry, ^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **423**, 428

Corrigendum. ^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **424**, 974

cichlids, Evolutionary biology: Fractious phylogenies, *News and views*, Kocher, T D, **423**, 489

cidofovir, On the trail of better treatment, *News*, Check, E, **422**, 245

cinema, Cinema: Return of the mutants, *Book review by*, Rutherford, A, **423**, 119

Incredible! Hulk lab is nothing like reality, *News in brief*, **423**, 794

Cirac–Zoller CNOT gate, Realization of the Cirac–Zoller controlled-NOT quantum gate, *Letter to Nature*, Schmidt-Kaler, F, Häffner, H, Riebe, M, Guide, S, Lancaster, G P T, Deuschele, T, Becher, C, Roos, C F, Eschner, J, Blatt, R, **422**, 408

circadian rhythms, Rhythmic histone acetylation underlies transcription in the mammalian circadian clock, *Letter to Nature*, Etchegaray, J-P, Lee, C, Wade, P A, Reppert, S M, **421**, 177

Role for antisense RNA in regulating circadian clock function in *Neurospora crassa*, *Letter to Nature*, Kramer, C, Loros, J L, Dunlap, J C, Crosthwaite, S K, **421**, 948

Cell biology: Flies get rhythm, *News and views*, Pilcher, H R, **423**, 935

Chromosome cohesion is regulated by a clock gene paralogue TIM-1, *Letter to Nature*, Chan, R C, Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J, **423**, 1002

Chronobiology: Biological Timekeeping, Dunlap, J C, Loros, J J, DeCoursey, P J, *Book review by* Palmer, J, **425**, 346

Timing is everything, *Opinion*, **425**, 885

Restless nights, listless days, *News feature*, Abbott, A, **425**, 896

Targeted degradation of TOC1 by ZTL modulates circadian function in *Arabidopsis thaliana*, *Letter to Nature*, MP, Kim, W-Y, Somers, D E, Kay, S A, **426**, 567

Gating of the rapid shade-avoidance response by the circadian clock in plants, *Letter to Nature*, Salter, M G, Franklin, K A, Whitelam, G C, **426**, 680

***cis-syn* cyclobutane pyrimidine dimers**, Replication of a *cis-syn* thymine dimer at atomic resolution, *Letter to Nature*, Ling, H, Boudsocq, F, Plosky, B S, Woodgate, R, Yang, W, **424**, 1083

citations, Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803

Copied citations give impact factors a boost, *News*, Clarke, T, **423**, 373

cities, Urbanization effects on tree growth in the vicinity of New York City, *Letter to Nature*, Gregg, J W, Jones, C G, Dawson, T E, **424**, 183

Cks proteins, Cks1-dependent proteasome recruitment and activation of *CDC20* transcription in budding yeast, *Letter to Nature*, Morris, M C, Kaiser, P, Rudyak, S, Baskerville, C, Watson, M H, Reed, S I, **423**, 1009

CLASP proteins, Dynamics and mechanics of the microtubule plus end, *Insight review article*, Howard, J, Hyman, A A, **422**, 753

clathrins, Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37

cleaner fish, Marine ecology: Fish that go to the cleaners, *News and views*, Whitfield, J, **421**, 493

Cleveland, William, Livermore official linked with alleged spy, *News*, Brumfiel, G, **422**, 651

CLIMAP project, Climate change: Chilled out in the ice-age Atlantic, *News and views*, Mix, A C, **425**, 32

climate, Impact of urbanization and land use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **423**, 528

Monsoon rains start to ease India's drought, *News*, Jayaraman, K S, **423**, 673

Metabolism: It's in the genes, *News and views*, Furness, R W, **425**, 779

Climate: Warmth, wind and water, *News and views*, Lincoln, T, **426**, 514

---

[1] **Full author list:** Heilig, R, Eckenberg, R, Petit, J-L, Fonknechten, N, Da Silva, C, Cattolico, L, Levy, M, Barbe, V, de Berardinis, V, Ureta-Vidal, A, Pelletier, E, Vico, V, Anthouard, V, Rowen, L, Madan, A, Qin, S, Sun, H, Du, H, Pepin, K, Artiguenave, F, Robert, C, Cruaud, C, Bruls, T, Jaillon, O, Friedlander, L, Samson, G, Brottier, P, Cure, S, Segurens, B, Aniere, F, Samain, S, Crespeau, H, Abbasi, N, Aiach, N, Boscus, D, Dickhoff, R, Dors, M, Dubois, I, Friedman, C, Gouyvenoux, M, James, R, Madan, A, Mairey-Estrada, B, Mangenot, S, Martins, N, Menard, M, Oztas, S, Ratcliffe, A, Shaffer, T, Trask, B, Vacherie, B, Bellemere, C, Belser, C, Besnard-Laurent, V, Ferron, C, Lechaplais, C, Louesse, C, Muselet, D, Magdelenat, G, Pateau, E, Petit, E, Sirvain-Trukniewicz, P, Trybou, A, Vega-Czarny, N, Bataille, E, Bluet, E, Bordelais, I, Dubois, M, Dumont, C, Guerin, T, Haffray, S, Hammadi, R, Muanga, J, Pellouin, V, Robert, D, Wunderle, E, Gauguet, G, Roy, A, Sainte-Marthe, L, Verdier, J, Verdier-Discala, C, Hillier, L, Fulton, L, McPherson, J, Matsuda, F, Wilson, R, Scarpelli, C, Gyapay, G, Wincker, P, Saurin, W, Quétier, F, Waterston, R, Hood, L, Weissenbach, J

[2] **Full author list:** Hillier, L W, Fulton, R S, Fulton, L A, Graves, T A Pepin, K H, Wagner-McPherson, C, Layman, D, Maas, J, Jaeger, S, Walker, R, Wylie, K, Sekhon, M, Becker, M C, O'Laughlin, M D, Schaller, M E, Fewell, G A, Delehaunty, K D, Miner, T L, Nash, W E, Cordes, M, Du, H, Sun, H, Edwards, J, Bradshaw-Cordum, H, Ali, J, Andrews, S, Isak, A, VanBrunt, A, Nguyen, C, Du, F, Lamar, B, Courtney, L, Kalicki, J, Ozersky, P, Bielicki, L, Scott, K, Holmes, A, Harkins, R, Harris, A, Strong, C M; Hou, S, Tomlinson, C, Dauphin-Kohlberg, S, Kozlowicz-Reilly, A, Leonard, S, Rohlfing, T, Rock, S M, Tin-Wollam, A-M, Abbott, A, Minx, P, Maupin, R, Strowmatt, C, Latreille, P, Miller, N, Johnson, D, Murray, J, Woessner, J P, Wendl, M C, Yang, S-P, Schultz, B R, Wallis, J W, Spieth, J, Bieri, T A, Nelson, J O, Berkowicz, N, Wohldmann, P E, Cook, L L, Hickenbotham, M T, Eldred, J, Williams, D, Bedell, J A, Mardis, E R, Clifton, S W, Chissoe, S L, Marra, M A, Raymond, C, Haugen, E, Gillett, W, Zhou, Y, James, R, Phelps, K, Iadanoto, S, Bubb, K, Simms, E, Levy, R, Clendenning, J, Kaul, R, Kent, W J, Furey, T S, Baertsch, R A, Brent, M R, Keibler, E, Flicek, P, Bork, P, Suyama, M, Bailey, J A, Portnoy, M E, Torrents, D, Chinwalla, A T, Gish, W R, Eddy, S R, McPherson, J D, Olson, M V, Eichler, E E, Green, E D, Waterston, R H, Wilson, R K

[3] **Full author list:** Mungall, A J, Palmer, S A, Sims, S K, Edwards, C A, Ashurst, J L, Wilming, L, Jones, M C, Horton, R, Hunt, S E, Scott, C E, Gilbert, J G R, Clamp, M E, Bethel, G, Milne, S, Ainscough, R, Almeida, J P, Ambrose, K D, Andrews, T D, Ashwell, R I S, Babbage, A K, Bagguley, C L, Bailey, J, Banerjee, R, Barker, D J, Barlow, K F, Bates, K, Beare, D M, Beasley, H, Beasley, O, Bird, C P, Blakey, S, Bray-Allen, S, Brook, J, Brown, A J, Brown, J Y, Burford, D C, Burrill, W, Burton, J, Carder, C, Carter, N P, Chapman, J C, Clark, S Y, Clark, G, Clee, C M, Clegg, S, Cobley, V, Collier, R E, Collins, J E, Colman, L K, Corby, N R, Coville, G J, Culley, K M, Dhami, P, Davies, J, Dunn, M, Earthrowl, M E, Ellington, A E, Evans, K A, Faulkner, L, Francis, M D, Frankish, A, Frankland, J, French, L, Garner, P, Garnett, J, Ghori, M J R, Gilby, L M, Gillson, C J, Glithero, R J, Grafham, D V, Grant, M, Gribble,,S, Griffiths, C, Hall, R, Halls, K S, Hammond, S, Harley, J L, Hart, E A, Heath, P D, Heathcott, R, Holmes, S J, Howden, P J, Howe, K L, Howell, G R, Huckle, E, Humphray, S J, Humphries, M D, Hunt, A R, Johnson, C M, Joy, A A, Kay, M, Keenan, S J, Kimberley, A M, King, A, Laird, G K, Langford, C, Lawlor, S, Leongamornlert, D A, Leversha, M, Lloyd, C R, Lloyd, D M, Loveland, J E, Lovell, J, Martin, S, Mashreghi-Mohammadi, M, Maslen, G L, Matthews, L, McCann, O T, McLaren, S J, McLay, K, McMurray, A, Moore, M J F, Mullikin, J C, Niblett, D, Nickerson, T, Novik, K L, Oliver, K, Overton-Larty, E K, Parker, A, Patel, R, Pearce, A V, Peck, A I, Phillimore, B, Phillips, S, Plumb, R W, Porter, K M, Ramsey, Y, Ranby, S A, Rice, C M, Ross, M T, Searle, S M, Sehra, H K, Sheridan, E, Skuce, C D, Smith, S, Smith, M, Spraggon, L, Squares, S L, Steward, C A, Sycamore, N, Tamlyn-Hall, G, Tester, J, Theaker, A J, Thomas, D W, Thorpe, A, Tracey, A, Tromans, A, Tubby, B, Wall, M, Wallis, J M, West, A P, White, S S, Whitehead, S L, Whittaker, H, Wild, A, Willey, D J, Wilmer, T E, Wood, J M, Wray, P W, Wyatt, J C, Young, L, Younger, R M, Bentley, D R. Coulson, A, Durbin, R, Hubbard, T, Sulston, J E, Rogers, J, Beck, S

climate change, A globally coherent fingerprint of climate change impacts across natural systems, *Article*, Parmesan, C, Yohe, G, **421**, 37
  Fingerprints of global warming on wild animals and plants, *Letter to Nature*, Root, T L, Price, J T, Hall, K R, Schneider, S H, Rosenzweig, C, Pounds, J A, **421**, 57
  Insurers left reeling by disaster year, *News*, Schiermeier, Q, **421**, 99
  Global change: Leads, lags and the tropics, *News and views*, Dunbar, R B, **421**, 121
  Magnitude and timing of temperature change in the Indo-Pacific warm pool during deglaciation, *Letter to Nature*, Visser, K, Thunell, R, Stott, L, **421**, 152
  Climate come-uppance delayed, *Editorial*, **421**, 195
  Senators turn up heat on greenhouse gases, *News in brief*, **421**, 202
  Palaeoclimatology: Cooling a continent, *News and views*, Barrett, P, **421**, 221
  Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO$_2$, *Letter to Nature*, DeConto, R M, Pollard, D, **421**, 245
  Constant elevation of southern Tibet over the past 15 million years, *Letter to Nature*, Spicer, R A, Harris, N B W, Widdowson, M, Herman, A B, Guo, S, Valdes, P J, Wolfe, J A, Kelley, S P, **421**, 622
  The current climate, *Concepts*, Rahmstorf, S, **421**, 699
  Severe summertime flooding Europe, *Brief communication*, Christensen, J H, Christensen, O B, **421**, 805
  Precise dating of Dansgaard–Oeschger climate oscillations in western Europe from stalagmite data, *Letter to Nature*, Genty, D, Blamart, D, Ouahdi, R, Gilmour, M, Baker, A, Jouzel, J, Van-Exter, S, **421**, 833
  New ages for human occupation and climatic change at Lake Mungo, Australia, *Letter to Nature*, Bowler, J M, Johnston, H, Olley, J M, Prescott, J R, Roberts, R G, Shawcross, W, Spooner, N A, **421**, 837
  Climate panel to seize political hot potatoes, *News*, Schiemeier, Q, **421**, 879
  Liability for climate change, *Commentary*, Allen, M, **421**, 891
  Yes, we have no energy policy, *Editorial*, **422**, 1
  Coal-fired power plant to bury issue of emissions, *News*, Hoag, H, **422**, 7
  Climate change: The earlier bird, *News and views*, van Noordwijk, A J, **422**, 29
  Delta blues, *News feature*, Clarke, T, **422**, 254
  The Adelie Penguin: Bellwether of Climate Change, Ainley, D G, *Book review by* Le Maho, Y, Gremillet, D, **422**, 264
  Detection of human influence on sea-level pressure, *Letter to Nature*, Gillett, N P, Zwiers, F W, Weaver, A J, Stott, P A, **422**, 292
  Homogeneous climate variability across East Antarctica over the past three glacial cycles, *Letter to Nature*, Watanabe, O, Jouzel, J, Johnsen, S, Parrenin, F, Shoji, H, Yoshida, N, **422**, 509
  Protecting the Ozone Layer: Science and Strategy, Parson, E A, *Book review by* Herrick, C, **422**, 664
  Protecting the Ozone Layer: The United Nations History, Anderson, S O, Sarma, K M, *Book review by* Herrick, C, **422**, 664
  Climate change: Hot tips on temperature, *News and views*, Clarke, T, **423**, 598
  Researchers rattled as Kyoto Protocol hangs in the balance, *News*, Schiermeier, Q, **423**, 792
  Sea-level fluctuations during the last glacial cycle, *Letter to Nature*, Siddall, M, Rohling, E J, Almogi-Labin, A, Hemleben, Ch, Meischner, D, Schmelzer, I, Smeed, D A, **423**, 853
  US observation initiative calls for fresh view of Earth, *News*, Reichhardt, T, **424**, 357
  Strategy for climate research gets cool response, *News*, Brumfiel, G, **424**, 475
  Global change: South dials north, *News and views*, Stocker, T F, **424**, 496
  Welcome to the Anthropocene, *Opinion*, **424**, 709
  Alpine thaw breaks ice over permafrost's role, *News*, Schiermeier, Q, **424**, 712
  Global change: The heat on Lake Tanganyika, *News and views*, Verschuren, D, **424**, 731
  Climate-driven changes to the atmosphere CO$_2$ sink in the subtropical North Pacific Ocean, *Letter to Nature*, Dore, J E, Lukas, R, Sadler, D W, Karl, D M, **424**, 754
  Climate changes decreases aquatic ecosystem productivity of Lake Tanganyika, Africa, *Letter to Nature*, O'Reilly, C M, Alin, S R, Plisnier, P-D, Cohen, A S, McKee, B A, **424**, 766
  Heatwave underlines climate-model failures, *News*, Butler, D, **424**, 867
  Climate change: Chilled out in the ice-age Atlantic, *News and views*, Mix, A C, **425**, 32
  Corrigendum: Impact of urbanization and land-use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **425**, 102
  Global effort to plot climate change, *News*, Langenberg, H, **425**, 112
  Antarctic data reveal hole truth about ozone, *News in brief*, **425**, 114
  No upward trends in the occurrence of extreme floods in central Europe, *Letter to Nature*, Mudelsee, M, Borngen, M, Teztlaff, G, Grunewald, U, **425**, 166
  Too hot to handle, *News feature*, Whitfield, J, **425**, 338
  Floods of record, *News and views*, Paola, C, **425**, 459
  Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation, *Letter to Nature*, Aalto, R, Maurice-Bourgoin, L, Dunne, T, Montgomery, D R, Nittrouer, C A, Guyot, J-L, **425**, 493
  Cenozoic climate change as a possible cause for the rise of the Andes, *Article*, Lamb, S, Davis, P, **425**, 792
  Tropical climate study gives view of global heatwave, *News in brief*, **425**, 892
  Climate study highlights inadequacy of emissions cuts, *News*, Schiermeier, Q, **426**, 486
  Disillusionment and doubt undermine Kyoto's birthday bash, *News*, Schiermeier, Q, **426**, 742
  Climate change: The long road from Kyoto, *News feature*, Schiermeier, Q, **426**, 756
  A change in the freshwater balance of the Atlantic Ocean over the past four decades, *Letter to Nature*, Curry, R, Dickson, B, Yashayaev, I, **426**, 826
climate change, Mars, Formation of recent martian gullies through melting of extensive water-rich snow deposits, *Letter to Nature*, Christensen, P R, **422**, 45
climate forecasting, Possible or probable?, *Concepts*, Allen, A R, **425**, 242
climate modelling, Mixing with latitude, *News and views*, Garrett, C, **422**, 477
  Reduced mixing from the breaking of internal waves in equatorial waters, *Letter to Nature*, Gregg, M C, Sanford, T B, Winkel, D P, **422**, 513
  Heatwave underlines climate-model failures, *News*, Butler, D, **424**, 867
  Possible or probable?, *Concepts*, Allen, A R, **425**, 242
  Climate model gets whirlwind treatment, *News in brief*, **425**, 552
  Crop freezes and land-use change in Florida, *Brief communication*, Marshall, C H, Pielke Sr, R A, Steyaert, L T, **426**, 29
climate prediction, Global change: The past and future of El Niño, *News and views*, Tudhope, S, Collins, M, **424**, 261
  El Niño/Southern Oscillation and tropical Pacific climate during the last millennium, *Article*, Cobb, K M, Charles, C D, Cheng, H, Edwards, R L, **424**, 271
  Global effort to plot climate change, *News*, Langenberg, H, **425**, 112
climate research, Analysis pours cold water on flood theory, *News*, Schiermeier, Q, **425**, 111
Climate Research, Journal editor quits hot seat over global-warming study, *News in brief*, **424**, 606
climate studies, Climate studies hold key to future of desalination plant, *News*, Dalton, R, **422**, 4
  No upward trends in the occurrence of extreme floods in central Europe, *Letter to Nature*, Mudelsee, M, Borngen, M, Teztlaff, G, Grunewald, U, **425**, 166
  Digging in, *News feature*, Cyranoski, D, **426**, 492
CLIMDAT, No upward trends in the occurrence of extreme floods in central Europe, *Letter to Nature*, Mudelsee, M, Borngen, M, Teztlaff, G, Grunewald, U, **425**, 166
clinical trials, Joint European plan will tackle Africa's killer diseases, *News*, McDowell, N, **421**, 5
  Cancer risk prompts US to curb gene therapy, *News*, Check, E, **422**, 7
  Dispute over data privacy halts cancer study, *News*, Cyranoski, D, **424**, 359
  Fetal trials need public funds, *Opinion*, **424**, 981
  Retraction ends furore over cancer vaccine, *News*, Abbott, A, **425**, 4
  Agony for researchers as mix-up forces retraction of ecstasy study, *News*, Knight, J, **425**, 109
  UK considers plans to shake up clinical trials, *News*, Giles, J, **426**, 216
  Whistles blow in vain on bad practice in German research, *News*, Abbott, A, **426**, 218
  'Money down the drain' fears for AIDS vaccine trials, *News in brief*, **426**, 221
  Shortcomings halt study of Swiss cancer vaccine, *News*, Schiermeier, Q, **426**, 484
  Rapid drug trial offers hope to CJD patients, *News*, Giles, J, **426**, 487
  Secrecy damages the NIH, *Opinion*, **426**, 739
  Accusations of bias prompt NIH review of ethical guidelines, *News*, Knight, J, **426**, 741
CLIP-170 protein, Dynamics and mechanics of the microtubule plus end, *Insight review article*, Howard, J, Hyman, A A, **422**, 753
***clock* gene**, Cell biology: Flies get rhythm, *News and views*, Pilcher, H R, **423**, 935
  Chromosome cohesion is regulated by a clock gene paralogue TIM-1, *Letter to Nature*, Chan, R C, Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J, **423**, 1002
Clock proteins, Rhythmic histone acetylation underlies transcription in the mammalian circadian clock, *Letter to Nature*, Etchegaray, J-P, Lee, C, Wade, P A, Reppert, S M, **421**, 177
clocks, The times, they are a-changin', *News feature*, Adam, D, **421**, 207
  Einstein's Clocks and Poincaré's Maps: Empires of Time, Galison, P, *Book review by* Gray, J, **424**, 879
Clonaid, Clonaid wins 'snake oil' for clone claims, *News in brief*, **422**, 250
  Raelian cloners 'have two staff and no lab', *News in brief*, **423**, 8
clonal analysis, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123
  Growth dynamics underlying petal shape and asymmetry, *Letter to Nature*, Rolland-Lagan, A-G, Bangham, J A, Coen, E, **422**, 161
cloning, Human cloning claim sparks fear of Senate backlash, *News*, Macilwain, C, **421**, 3
  Prospect of human cloning poses dilemma for journals, *News*, Pearson, H, **421**, 199
  Antinori makes a meal of hunger-strike claim, *News in brief*, **421**, 466
  Dolly's death leaves researchers woolly on the clone ageing issue, *News*, Giles, J, Knight, J, **421**, 776
  Clonaid wins 'snake oil' for clone claims, *News in brief*, **422**, 250
  Scientists blast European vote to limit stem-cell work, *News in brief*, **422**, 654
  Stuffed Dolly not starved of attention, *News in brief*, **422**, 654
  Disease insights from stem cells, *Opinion*, **422**, 787
  Raelian cloners 'have two staff and no lab', *News in brief*, **423**, 8
  Researchers divided over ethics of a ban on cloning, *News*, Abbott, A, **423**, 373
  Approval for stem cells pre-empts parliament, *News in brief*, **423**, 374
  Embryos aren't essential to stem-cell research, *Correspondence*, Sherley, J L, **423**, 381
  Gene expression: Silent clones speak up, *News and views*, Reik, W, Dean, W, **423**, 390
  Cloning of adiponectin receptors that mediate antidiabetic metabolic effects, *Letter to Nature*, Yamauchi, T, Kamon, J, Ito, Y, Tsuchida, A, Yokomizo, T, Kita, S, Sugiyama, T, Miyagishi, M, Hara, K, Tsunoda, M, Murakami, K, Ohteki, T, Uchida, S, Takekawa, S, Waki, H, Tsuno, N H, Shibata, Y, Terauchi, Y, Froguel, P, Tobe, K, Koyasu, S, Taira, K, Kitamura, T, Shimizu, T, Nagal, R, Kadowaki, T, **423**, 762
  Dolly firm in trouble after transgenic milk fails to flow, *News*, Hogan, J, **423**, 907
  Medical association backs human cloning, *News in brief*, **423**, 911
  Reproductive cloning: an attack on human dignity, *Correspondence*, Leader, D P, **424**, 14
  Reproductive cloning: don't rush to judgement, *Correspondence*, Robertson, J A, **424**, 14
  Synthetic sex cells, *News feature*, Dennis, C, **424**, 364
  A cloned horse born to its dam twin, *Brief communication*, Galli, C, Lagutina, I, Crotti, G, Colleoni, S, Turini, P, Ponderato, N, Duchi, R, Lazzari, G, **424**, 635
  Wave of controversies spurs probe into fair presentation of results, *News in brief*, **424**, 868
  Reproduction: Widespread cloning in echinoderm larvae, *Brief communication*, Eaves, A A, Palmer, A R, **425**, 146
  Corrigendum: A cloned horse born to its dam twin, *Brief communication*, Galli, C, Lagutina, I, Crotti, G, Colleoni, S, Turini, P, Ponderato, N, Duchi, R, Lazzari, G, **425**, 680
  United Nations fails to reach agreement on human cloning, *News in brief*, **426**, 112
  Take a cell, any cell, *News feature*, Dennis, C, **426**, 490
  Whose View of Life? Embryos, Cloning and Stem Cells, Maienschein, J, *Book review by* Winston, R, **426**, 603
  Koreans rustle up madness-resistant cows, *News*, Cyranoski, D, **426**, 743
clouds, Optics: Laser light sees through clouds, *News and views*, Ball, P, **424**, 385
Cloverleaf quasar, The essential signature of a massive starburst in a distant quasar, *Letter to Nature*, Solomon, P, Vanden Bout, P, Carilli, C, Guelin, M, **426**, 636
clownfish, Size and growth modification on clownfish, *Brief communication*, Buston, P, **424**, 145
***clpP1* gene**, The plastid *clpP1* protease gene is essential for plant development, *Letter to Nature*, Kuroda, H, Maliga, P, **425**, 86
coal, Coal-fired power plant to bury issue of emissions, *News*, Hoag, H, **422**, 7
Coalition for Medical Progress (UK), Public starts to accept use of animal experiments..., *News in brief*, **422**, 250
coat proteins, Membrane trafficking: Coat control by curvature, *News and views*, Lippincott-Schwartz, J, Liu, W, **426**, 507
cobalt oxides, Superconductivity in two-dimensional CoO$_2$ layers, *Letter to Nature*, Takada, K, Sakurai, H, Takayama-Muromachi, E, Izumi, F, Dilanian, R A, Sasaki, T, **422**, 53
  Condensed matter physics: Thermopower to the people, *News and views*, Vining, C B, **423**, 391
  Spin entropy as the likely source of enhanced thermopower in Na$_x$Co$_2$O$_4$, *Letter to Nature*, Wang, Y, Rogado, N S, Cava, R J, Ong, N P, **423**, 425
cocaine, Extinction-induced upregulation in AMPA receptors reduces cocaine-seeking behaviour, *Letter to Nature*, Sutton, M A, Schmidt, E F, Choi, K-H, Schad, C A, Whisler, K, Simmons, D, Karanian, D A, Monteggia, L M, Neve, R L, Self, D W, **421**, 70
  Subsecond dopamine release promotes cocaine seeking, *Letter to Nature*, Phillips, P E M, Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M, **422**, 614
  Erratum: Subsecond dopamine release promotes cocaine seeking, *Letter to Nature*, Phillips, P E M, Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M, **423**, 461
cockatiels, Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363
cod, Atlantic cod meet icy death, *News*, Hoag, H, **422**, 792
  Europe dithers as Canada cuts cod fishing, *News*, Schiermeier, Q, **423**, 212
  Plankton effect on cod recruitment in the North Sea, *Letter to Nature*, Beaugrand, G, Brander, K M, Lindley, J A, Souissi, S, Reid, P C, **426**, 661
coesite, Earth science: Subduction the hard way, *News and views*, Wright, A, **423**, 24
  Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68
coexistence of species, Plant ecology: Tree-species competition and coexistence, *Brief communication*, Lusk, C, **422**, 580
  Plant ecology: Coexistence of tropical tree species, *Brief communication*, Baker, P J, Wilson, J S, **422**, 581
  Reply: Plant ecology: Coexistence of tropical tree species, *Brief communication*, Kelly, C, Bowler, M G, **422**, 582

Coffea canephora, RNA interference: Producing decaffeinated coffee plants, *Brief communication*, Ogita, S, Uefuji, H, Yamaguchi, Y, Koizumi, N, Sano, H, **423**, 823
coffee, Global project needed to tackle coffee crisis, *Correspondence*, Vega, F E, Rosenquist, E, Collins, W, **425**, 343
coffee plants, RNA interference: Producing decaffeinated coffee plants, *Brief communication*, Ogita, S, Uefuji, H, Yamaguchi, Y, Koizumi, N, Sano, H, **423**, 823
Natural decaf could brew trouble for farmers, *Correspondence*, Baker, P S, **424**, 613
cognition, Cortex and Mind: Unifying Cognition, Fuster, J M, *Book review by* Martin, K, **423**, 383
The Cognitive Neuroscience of Music, Peretz, I, Zatorre, R, *Book review by* Janata, P, **426**, 386
cognitive function, The Bard on the Brain: Understanding the Mind Through the Art of Shakespeare and the Science of Brain Imaging, Matthews, P M, McQuain, J, *Book review by* Martin, K A C, **424**, 254
cognitive maps, Neuroscience: Going to town, *News and views*, Pilcher, H R, **422**, 132
cognitive neuroscience, Cognitive neuroscience: Practice doesn't make perfect, *News and views*, Geisler, W, Murray, R, **423**, 696
The remarkable inefficiency of word recognition, *Letter to Nature*, Pelli, D G, Farell, B, Moore, D C, **423**, 752
The Face in the Mirror: The Search for the Origins of Consciousness, Keenan, J, Gallup Jr, G G, Falk, D, *Book review by* Hauser, M, **424**, 15
cognitive science, Original Intelligence: Unlocking the Mystery of Who We Are, Premack, D, Premack, A, *Book review by* Bryant, P, **425**, 17
To put it simply, *Concepts*, Piattelli-Palmarini, M, **426**, 607
coherent backscatter, Radar imaging of the lunar poles, *Brief communication*, Campbell, B A, Campbell, D B, Chandler, J F, Hine, A A, Nolan, M C, Perillat, P J, **426**, 137
coherent light, Quasi-phase-matched generation of coherent extreme-ultraviolet light, *Letter to Nature*, Paul, A, Bartels, R A, Tobey, R, Green, H, Welman, S, Christov, I P, Murnane, M M, Kapteyn, H C, Backus, S, **421**, 51
Cohn, Edwin J., Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II, Surgenor, D M, *Book review by* Tanford, C, Reynolds, J, **423**, 224
coiled coils, Visualization of an unstable coiled coil from the scallop myosin rod, *Letter to Nature*, Li, Y, Brown, J H, Reshetnikova, L, Blazsek, A, Farkas, L, Nyltray, L, Cohen, C, **424**, 341
coins, Double helix gets minty fresh image, *News in brief*, **421**, 103
collaborative science, Windfall spurs rare Israeli-Palestinian research effort, *News*, Adam, D, **421**, 777
Secrecy is increasing in step with competition, *Correspondence*, Walsh, J P, Hong, W, **422**, 801
Still out in the cold, *News feature*, Brumfiel, G, **423**, 678
Middle East: trying to break down the barriers, *Correspondence*, Ali, B R, **425**, 899
collisions, heavenly bodies, Disruption of fragmented parent bodies as the origin of asteroid families, *Letter to Nature*, Michel, P, Benz, W, Richardson, D C, **421**, 608
colloids, Condensed-matter physics: Tunable colloidal crystals, *News and views*, Russel, W B, **421**, 490
A colloidal model system with an interaction tunable from hard sphere to soft and dipolar, *Letter to Nature*, Yethiraj, A, van Blaaderen, A, **421**, 513
Fluid dynamics: Vortex rings in a constant electric field, *Brief communication*, Grier, D G, **424**, 267
Colorado River, Ecologists seek to turn tide on Colorado River, *News*, Dalton, R, **423**, 793
colorectal cancer, Cancer: Genetic prescription, *News and views*, Carlsson, C, **423**, 496
colossal magnetoresistance, Magnetization distribution in the mixed-phase state of hole-doped manganites, *Letter to Nature*, Murakami, Y, Yoo, J H, Shindo, D, Atou, T, Kikuchi, M, **423**, 965
colour, Ecology: Study in blue, *News and views*, Hopkin, M, **423**, 820
colour vision, A spatially organized representation of colour in macaque cortical area V2, *Letter to Nature*, Xiao, Y, Wang, Y, Felleman, D J, **421**, 535
Vision: An eye for colour, *News and views*, Pilcher, H R, **426**, 618
Parallel colour-opponent pathways to primary visual cortex, *Letter to Nature*, Chatterjee, S, Callaway, E M, **426**, 668
Columbia Accident Investigation Board, NASA braced for culture shock as Columbia inquiry reaches verdict, *News*, Reichhardt, T, **424**, 863
Columbia Glacier, Tidewater glaciers move at their own pace, *Correspondence*, Pfeffer, W T, **426**, 602
Columbia space shuttle, Where now for NASA?, *Editorial*, **421**, 559
Columbia explosion may trigger fatal delays for space station, *News*, Reichhardt, T, **421**, 561
NASA sets up dual probes into shuttle accident, *News*, Brumfiel, G, **421**, 561
Science had rare leading role in ill-started shuttle mission, *News*, Adam, D, **421**, 562
Shuttle inquiry to piece disaster together from the ground up, *News*, Butler, D, **421**, 677
On wings and a prayer, *News feature*, Brumfiel, G, **421**, 684
Columbia researchers sift through reclaimed results, *News in brief*, **421**, 882
NASA intensifies probe into Columbia failure, *News*, Reichhardt, T, **422**, 249
Columbia data hint at wing damage during launch, *News in brief*, **422**, 462
Columbia inquiry homes in on faulty foam, *News*, Reichhardt, T, **423**, 7
Shuttle's wonder worms make it back to NASA in one piece, *News in brief*, **423**, 108
NASA to set up safety centre in wake of shuttle crash, *News in brief*, **424**, 362
NASA braced for culture shock as Columbia inquiry reaches verdict, *News*, Reichhardt, T, **424**, 863
Honesty and denial at NASA, *Opinion*, **425**, 1
Columbia inquiry prompts White House strategy review, *News*, Reichhardt, T, **425**, 4
NASA: Trawling through the wreckage, *News feature*, Reichhardt, T, **426**, 754
comets, Comet mission hangs in the balance, *News*, Adam, D, Butler, D, **421**, 102
Safety doubts force rethink of embattled comet mission, *News*, Butler, D, **421**, 198
Failed mission launch prompts ESA to reconsider comet target, *News*, Butler, D, **421**, 301
Solar system: Close encounter of the cometary kind, *News and views*, Wright, A, **422**, 130
Spiralling costs dog comet mission, *News*, Butler, D, **423**, 372
The evolution of comets in the Ooort cloud and Kuiper belt, *Progress article*, Stern, S A, **424**, 639
commercialization, Universities in the Marketplace: The Commercialization of Higher Education, Bok, D, *Book review by* Gunawardena, J, **424**, 489
commodities, Global project needed to tackle coffee crisis, *Correspondence*, Vega, F E, Rosenquist, E, Collins, W, **425**, 343
common cold, Cold Wars: The Fight Against the Common Cold, Tyrrell, D, Fielder, M, *Book review by* Dimmock, N, **422**, 379
communication, Bringing down the barriers, *Commentary*, Willems, J, **422**, 470
Non-classical receptive field mediates switch in a sensory neuron's frequency tuning, *Letter to Nature*, Chacron, M J, Doiron, B, Maler, L, Longtin, A, Bastian, J, **423**, 77
How e-mail raises the spectre of a digital Dark Age, *Correspondence*, Friedberg, E C, Hagler, H K, Land, K J, **423**, 801
Echolocation: Volume control, *News and views*, Tromas, A, **423**, 815
Automatic gain control in the echolocation system of dolphins, *Letter to Nature*, Au, W W L, Benoit-Bird, K J, **423**, 861
Facial expression linked to monkey calls, *Brief communication*, Ghazanfar, A A, Logothetis, N K, **423**, 937
Addendum: Non-classical receptive field mediates switch in a sensory neuron's frequency tuning, *Letter to Nature*, Chacron, M J, Doiron, B, Maler, L, Longtin, A, Bastian, J, **423**, 1018
Insect signalling: Components of giant hornet alarm pheromone, *Brief communication*, Ono, M, Terabe, H, Hori, H, Sasaki, M, **424**, 637
community assembly, Productivity-biodiversity relationships depend on the history of community assembly, *Letter to Nature*, Fukami, T, Morin, P J, **424**, 423
community resources, Sacrifice for the greater good, *Editorial*, **421**, 875
comparative genomics, Corrigendum: Insecticide resistance in mosquito vectors, *Brief communication*, Weill, M, Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M, **425**, 366
compartmentalization, Developmental biology: Boundary lines, *News and views*, Blair, S S, **424**, 379
compensation, Belarus seeks compensation for poached scientists, *News in brief*, **421**, 6
Liability for climate change, *Commentary*, Allen, M, **421**, 891
Victims of smallpox vaccine 'should be compensated', *News in brief*, **422**, 106
Sacked Los Alamos man wins cash payout, *News in brief*, **424**, 988
competition, It's a scoop!, *News feature*, Pearson, H, **426**, 222
complex fluids, Complex fluids: Spread the word about nanofluids, *News and views*, Chaudhury, M K, **423**, 131
Spreading of nanofluids on solids, *Letter to Nature*, Wasan, D T, Nikolov, A D, **423**, 156
complexity, Physicist takes the reins at Santa Fe complexity centre, *News*, Brumfiel, G, **423**, 105
composite materials, Biomaterials: Size matters, *News and views*, Ball, P, **423**, 238
Super-tough carbon-nanotube fibres, *Brief communication*, Dalton, A B, Collins, S, Muñoz, E, Razal, J M, Ebron, V H, Ferraris, J P, Coleman, J N, Kim, B G, Baughman, R H, **423**, 703
computational biology, A vision for the future of genomics research, *Feature*, Collins, F S, Green, E D, Guttmacher, A E, Guyer, M S, **422**, 835
Computational biology: Biosensor design, *News and views*, DeGrado, W F, **423**, 132
Computational design of receptor and sensor proteins with novel functions, *Letter to Nature*, Looger, L L, Dwyer, M A, Smith, J J, Hellinga, H W, **423**, 185
computer memory, The light fantastic, *News feature*, Haw, M, **422**, 556
A polymer/semiconductor write-once read-many-times memory, *Letter to Nature*, Moller, S, Perlov, C, Jackson, W, Taussig, C, Forrest, S R, **426**, 166
computer models, Conservation: Model distributions, *News and views*, Whitfield, J, **425**, 914
computer software, Tools for modelling biological processes, *Correspondence*, Keane, J, **421**, 573
A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17
computer viruses, Six Degrees: The Science of a Connected Age, Watts, D J, *Book review by* Adamic, L, **422**, 265
computer worms, Experts fear network paralysis as computer worms blast Internet, *News*, Butler, D, **425**, 3
Academics sidelined in battle against computer worms, *News*, Butler, D, **425**, 228
computers, A mechanical mind, *Science in culture*, Kemp, M, **421**, 214
Six Degrees: The Science of a Connected Age, Watts, D J, *Book review by* Adamic, L, **422**, 265
Tomorrow's computing today, *News feature*, Butler, D, **422**, 799
A Computer Called LEO: Lyons Teashops and the World's First Office Computer, Ferry, G, *Book review by* Ralston, A, **424**, 616
Programmable computing with a single magnetoresistive element, *Letter to Nature*, Ney, A, Pampuch, C, Koch, R, Ploog, K H, **425**, 485
Big Mac team serves up cheap supercomputer, *News in brief*, **425**, 652
Computer programs to call the shots for astronomers, *News in brief*, **425**, 756
Magnetic effect sends physicists into a spin, *News*, Brumfiel, G, **426**, 110
See also **quantum computers**
concepts, The Big Book of Concepts, Murphy, G L, *Book review by* Bloom, P, **421**, 212
Concorde, A flight of fancy, *Opinion*, **423**, 903
condensed-matter physics, Condensed-matter physics: Two bodies are better than one, *News and views*, Barbara, B, **421**, 32
Condensed-matter physics: Tunable colloidal crystals, *News and views*, Russel, W B, **421**, 490
A colloidal model system with an interaction tunable from hard sphere to soft and dipolar, *Letter to Nature*, Yethiraj, A, van Blaaderen, A, **421**, 513
Condensed matter physics: Thermopower to the people, *News and views*, Vining, C B, **423**, 391
Condensed-matter physics: Hydrogen falls into line, *News and views*, Martin, R M, Galli, G, **423**, 595
Condensed-matter physics: Really cool molecules, *News and views*, Julienne, P S, **424**, 24
Creation of ultracold molecules from a Fermi gas of atoms, *Letter to Nature*, Regal, C A, Ticknor, C, Bohn, J L, Jin, D S, **424**, 47
Condensed-matter physics: Singular behaviour, *News and views*, Fisk, Z, **424**, 504
Superconductivity: Lifting the gossamer veil, *News and views*, Coleman, P, **424**, 625
A revolution in optical manipulation, *Insight review article*, Grier, D G, **424**, 810
Signature of optimal doping in Hall-effect measurements on a high-temperature superconductor, *Letter to Nature*, Balakirev, F F, Betts, J B, Migliori, A, Ono, S, Ando, Y, Boebinger, G S, **424**, 912
Condensed-matter physics: Vortices and hearts, *News and views*, Clarke, J, **425**, 133
Condensed-matter physics: The quest for imperfection, *News and views*, Rosenbaum, T F, **426**, 135
Condensed-matter physics: Spurious magnetism in high-T_c superconductor, *Brief communication*, Mang, P K, Larochelle, S, Greven, M, **426**, 139
Reply: Condensed-matter physics: Spurious magnetism in high-Tc superconductor, *Brief communication*, Kang, H J, Dai, P, Lynn, W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y, **426**, 140
Non-saturating magnetoresistance in heavily disordered semiconductors, *Letter to Nature*, Parish, M M, Littlewood, P B, **426**, 162
Condensed-matter physics: Illuminating behaviour, *News and views*, Bockrath, M, **426**, 511
Direct observation of Tomonaga-Luttinger-liquid state in carbon nanotubes at low temperatures, *Letter to Nature*, Ishii, H, Kataura, H, Shiozawa, H, Yoshioka, H, Otsubo, H, Takayama, Y, Miyahara, T, Suzuki, S, Achiba, Y, Nakatake, M, Narimura, T, Higashiguchi, M, Shimada, K, Namatame, H, Taniguchi, M, **426**, 540
cones, Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice, *Letter to Nature*, Hattar, S, Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W, **424**, 76
Role of visual pigment properties in rod and cone phototransduction, *Letter to Nature*, Kefalov, V, Fu, Y, Marsh-Armstrong, N, Yau, K-W, **425**, 526
conflict, Evolution of cooperation and conflict in experimental bacterial populations, *Letter to Nature*, Rainey, P B, Rainey, K, **425**, 72
conflict of interest, Vigilance is vital to avoid conflicts of interest, *Correspondence*, MacDonald, C, **422**, 469
Cancer body gets tough on conflicts, *News in brief*, **423**, 108
Journals wrestle with definition of 'competing' interest, *News*, Knight, J, **423**, 908
conflict resolution, The genetic basis of family conflict resolution in mice, *Letter to Nature*, Hager, R, Johnstone, R A, **421**, 533
congenital heart defects, GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5, *Letter to Nature*, Garg, V, Kathiriya, I S, Barnes, R, Schluterman, M K, ing, I N, Butler, C A, Rothrock, C R, Eapen, R S, Hirayama-Yamada, K, Joo, K, Matsuoka, R, Cohen, J C, Srivastava, D, **424**, 443
Congo, Congo massacre probe enlists forensic team, *News in brief*, **422**, 794
Congo Red, Pivotal role of oligomerization in expanded polyglutamine neurodegenerative disorders, *Letter to Nature*, Sánchez, I, Mahike, C, Yuan, J, **421**, 373
conifers, Plant physiology: Needles point to pollution, *News and views*, Surridge, C, **426**, 784
connexin 43, Tissue repair: Gel brought to heal in mice, *News and views*, Pilcher, H R, **425**, 678

consciousness, The Face in the Mirror: The Search for the Origins of Consciousness, Keenan, J, Gallup Jr, G G, Falk, D, *Book review by* Hauser, M, **424**, 15

Seeing sense, *Science in culture*, Kemp, M, **424**, 18

Consciousness: An Introduction, Blackmore, S, *Book review by* Farber, I, **426**, 604

conservation, Disease susceptibility in California sea lions, *Brief communication*, Acevedo-Whitehouse, K, Gulland, F, Greig, D, Amos, W, **422**, 35

Conservation: Reproductive collapse in saiga antelope harems, *Brief communication*, Milner-Gulland, E J, Bukreeva, O M, Coulson, T, Lushchekina, A A, Kholodova, M V, Bekenov, A B, Grachev, I A, **422**, 135

How to slake a planet's thirst, *Opinion*, **422**, 242

Dynamic diversity, *Concepts*, Knapp, S, **422**, 475

Unbalanced view of a dynamic world, *Correspondence*, Martin, G, **423**, 115

Mock turtles, *News feature*, Dalton, R, **423**, 219

Field sports and conservation in the United Kingdom, *Letter to Nature*, Oldfield, T E E, Smith, R J, Harrop, S R, Leader-Williams, N, **423**, 531

Whaling group backs conservation, *News*, Westney, C, **423**, 789

Ants join online colony to boost conservation efforts, *News*, Dalton, R, **424**, 242

Amateur anglers cast as nature monitors, *News in brief*, **424**, 362

Catastrophic extinctions follow deforestation in Singapore, *Letter to Nature*, Brook, B W, Sodhi, N S, Ng, P K L, **424**, 420

Whale genetics study leaves conservationists all at sea, *News*, Clarke, T, Knight, J, **424**, 479

Save our city!, *News feature*, Nosengo, N, **424**, 608

Lack of concern deepens the oceans' problems, *Correspondence*, Kochin, B F, Levin, P S, **424**, 723

Conservation plans stymied by inadequate data, *News in brief*, **425**, 8

Mixed results for conservation efforts leave species dying, *News in brief*, **425**, 230

Gorilla count resumes as tensions ease in central African forests, *News in brief*, **425**, 652

Conservation: Model distributions, *News and views*, Whitfield, J, **425**, 914

Disease spread leads Britain to pull plug on trial badger cull, *News*, Giles, J, **426**, 4

CONSTANS, FKF1 is essential for photoperiodic-specific light signalling in *Arabidopsis*, *Letter to Nature*, Imaizumi, T, Tran, H G, Swartz, T E, Briggs, W R, Kay, S A, **426**, 302

constants, Chemists weigh up change to fundamental constant, *News in brief*, **425**, 336

Consultative Group on International Agricultural Research (CGIAR), Anger grows over plan to uproot Indian crop institute, *News*, Jayaraman, K S, **424**, 477

consumption, A blot on the land, *Concepts*, Rees, W E, **421**, 898

How technology can reduce our impact on the Earth, *Correspondence*, Goklany, I M, Trewavas, A J, **423**, 115

continental thickness, Global anisotropy and the thickness of continents, *Letter to Nature*, Gung, Y, Panning, M, Romanowicz, B, **422**, 707

controlled-NOT gates, Demonstration of an all-optical quantum controlled-NOT gate, *Letter to Nature*, O'Brien, J L, Pryde, G J, White, A G, Ralph, T C, Branning, D, **426**, 264

convection, Whole-mantle convection and the transition-zone water filter, *Hypothesis*, Bercovici, D, Karato, S-I, **425**, 39

Convention on Biological Diversity, A necessary setback for world trade, *Opinion*, **425**, 223

convergence, Life's Solution: Inevitable Humans in a Lonely Universe, *Book review*, Conway Morris, S, Lenski, R E, **425**, 767

cooling, Quantum physics: How cold can you go?, *News and views*, Ball, P, **424**, 143

cooperative behaviour, Group decision-making in animals, *Letter to Nature*, Conradt, L, Roper, T J, **421**, 155

Sociology: The puzzle of human cooperation, *Brief communication*, Johnson, D D P, Stopka, P, Knights, S, **421**, 911

Reply: Sociology: The puzzle of human cooperation, *Brief communication*, Fehr, E, Gächter, S, **421**, 912

Detrimental effects of sanctions on human altruism, *Article*, Fehr, E, Rockenbach, B, **422**, 137

Evolution of cooperation and conflict in experimental bacterial populations, *Letter to Nature*, Rainey, P B, Rainey, K, **425**, 72

Evolution of novel cooperative swarming in the bacterium *Myxococcus xanthus*, *Letter to Nature*, Velicer, G J, Yu, Y-t N, **425**, 75

Volunteering leads to rock-paper-scissors dynamics in a public goods game, *Letter to Nature*, Semmann, D, Krambeck, H-J, Milinski, M, **425**, 390

The nature of human altruism, *Review article*, Fehr, E, Fischbacher, U, **425**, 785

coots, Behavioural ecology: Coots count, *News and views*, Andersson, M, **422**, 483

Egg recognition and counting reduce costs of avian conspecific brood parasitism, *Article*, Lyon, B E, **422**, 495

COP1 protein, LAF1 ubiquitination by COP1 controls photomorphogenesis and is stimulated by SPA1, *Letter to Nature*, Seo, H S, Yang, J-Y, Ishikawa, M, Bolle, C, Ballesteros, M L, Chua, N-H, **423**, 995

Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature, *Letter to Nature*, Bigay, J, Gounon, P, Robineau, S, Antonny, B, **426**, 563

copper, Microelectronics: Clean-up for copper chips, *News and views*, Ball, P, **422**, 677

Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15

copper oxides, Pebbles in the nodal pond, *News and views*, Zaanen, J, **422**, 569

Relating atomic-scale electronic phenomena to wave-like quasiparticle states in superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$, *Letter to Nature*, McElroy, K, Simmonds, R W, Hoffman, J E, Lee, D-H, Orenstein, J, Eisaki, H, Uchida, S, Davis, J C, **422**, 592

A hidden pseudogap under the 'dome' of superconductivity in electron-doped high-temperature superconductors, *Letter to Nature*, Alff, L, Krockenberger, Y, Welter, B, Schonecke, M, Gross, R, Manske, D, Naito, M, **422**, 698

High-temperature superconductors: Universal nodal Fermi velocity, *Brief communication*, Zhou, X J, Yoshida, T, Lanzara, A, Bogdanov, P V, Kellar, S A, Shen, K M, Yang, W L, Ronning, F, Sasagawa, T, Kakashita, T, Noda, T, Eisaki, H, Uchida, S, Lin, C T, Zhou, F, Xiong, W, Ti, W X, Zhao, Z X, Fujimori, A, Hussain, Z, Shen, Z-X, **423**, 398

Antiferromagnetic order as the competing ground state in electron-doped $Nd_{1.85}Ce_{0.15}CuO_4$, *Letter to Nature*, Kang, H J, Dai, P, Lynn, J W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y, **423**, 522

Superconductivity phase diagram of $Na_xCoO_2.1.3H_2O$, *Letter to Nature*, Schaak, R E, Kilmczuk, T, Foo, M L, Cava, R J, **424**, 527

Superconductivity: Lifting the gossamer veil, *News and views*, Coleman, P, **424**, 625

Coprinus cinereus, Genetics: Suicidal mushroom cells, *News and views*, Money, N P, **423**, 26

copyright, Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217

See also **intellectual property**

coral reefs, Coral Reef Fishes: Diversity and Dynamics in a Complex Ecosystem, Sale, P, *Book review by* Bshary, R, **421**, 317

Global change: Dishing the dirt on coral reefs, *News and views*, Cole, J, **421**, 705

Coral record of increased sediment flux in the inner Great Barrier Reef since European settlement, *Letter to Nature*, McCulloch, M, Fallon, S, Wyndham, T, Hendy, E, Lough, J, Barnes, D, **421**, 727

Patterns and processes in reef fish diversity, *Letter to Nature*, Mora, C, Chittaro, P M, Sale, P F, Kritzer, J P, Ludsin, S A, **421**, 933

Europe bans deep-sea trawling to save coral, *News in brief*, **424**, 988

Predicted recurrences of mass coral mortality in the Indian Ocean, *Letter to Nature*, Sheppard, C R C, **425**, 294

Ecology: Oxygen needs in the corals, *News and views*, Whitfield, J, **425**, 364

Coral reveals ancient origins of human genes, *News*, Dennis, C, **426**, 744

core, Earth's, Iron-silica interaction at extreme conditions and the electrically conducting layer at the base of Earth's mantle, *Letter to Nature*, Dubrovinsky, L, Dubrovinskaia, N, Langenhorst, F, Dobson, D, Rubie, D, Gessmann, C, Abrikosov, I A, Johansson, B, Baykov, V I, Vitos, L, Le Bihan, T, Crichton, W A, Dmitriev, V, Weber, H-P, **422**, 58

Mission to Earth's core - a modest proposal, *Brief communication*, Stevenson, D J, **423**, 239

Earth science: Core effect, *News and views*, Clarke, T, **423**, 496

Possible thermal and chemical stabilization of body-centred-cubic iron in the Earth's core, *Letter to Nature*, Vocadlo, L, Alfè, D, Gillan, M J, Wood, I G, Brodholt, J P, Price, G D, **424**, 536

Intense equatorial flux spots on the surface of the Earth's core, *Letter to Nature*, Jackson, A, **424**, 760

Stability of the body-centred-cubic phase of iron in the Earth's inner core, *Letter to Nature*, Belonoshko, A B, Ahuja, R, Johansson, B, **424**, 1032

core, Moon's, Model for magnetic mystery, *News and views*, Zuber, M T, **421**, 119

An early lunar core dynamo driven by thermochemical mantle convection, *Letter to Nature*, Stegman, D R, Jellinek, A M, Zatman, S A, Baumgardner, J R, Richards, M A, **421**, 143

core, planetary, Planetary science: The core of planet formation, *News and views*, Minarik, B, **422**, 126

Core formation in planetesimals triggered by permeable flow, *Letter to Nature*, Yoshino, T, Walter, M J, Katsura, T, **422**, 154

Cornell Electron Storage Ring, Revamped accelerator seeks quark's secrets, *News*, Brumfiel, G, **422**, 248

coronary artery disease, Coronary Artery Disease: Genes, Drugs, and the Agricultural Connection, Faergeman, O, *Book review by* Nestle, M, **425**, 902

coronaviruses, China joins investigation of mystery pneumonia, *News*, Cyranoski, D, **422**, 459

There are two sides to biodefence, *Opinion*, **422**, 545

Cancer conference scrapped as outbreak intensifies, *News*, Clarke, T, **422**, 547

Researchers get to grips with cause of pneumonia epidemic, *News*, Knight, J, **422**, 547

Chinese authorities admit mishandling of Guangdong crisis, *News*, Cyranoski, D, **422**, 548

Infection risk puts the brakes on Canada's biomedical research, *News*, Clarke, T, **422**, 652

Taiwan left isolated in fight against SARS, *News*, Cyranoski, D, **422**, 652

Apartment complex holds clues to pandemic potential of SARS, *News*, Cyranoski, D, Abbott, A, **423**, 3

Biologists seek to head off future sources of infection, *News*, Abbott, A, Cyranoski, D, **423**, 3

Critics slam treatment for SARS as ineffective and perhaps dangerous, *News*, Cyranoski, D, **423**, 4

Asian airports use thermal imaging to hunt down SARS, *News in brief*, **423**, 8

US Army joins hunt for SARS drug, *News*, Abbott, A, **423**, 103

First past the post, *News feature*, Abbott, A, **423**, 114

Gene patents and the public good, *Opinion*, **423**, 207

US acts to keep SARS sequence public, *News in brief*, **423**, 214

Aetiology: Koch's postulates fulfilled for SARS virus, *Brief communication*, Fouchier, R A M, Kuiken, T, Schutten, M, van Amerongen, G, van Doornum, G J J, van den Hoogen, B G, Peiris, M, Lim, W, Stohr, K, Osterhaus, A D M E, **423**, 240

Animal studies hint at staying power of SARS, *News*, Pearson, H, **423**, 370

Politics hindering SARS work, *Correspondence*, Hsieh, Y-H, **423**, 381

Virus detectives seek source of SARS in China's wild animals, *News*, Cyranoski, D, Abbott, A, **423**, 467

Taiwan slams health officials for 'lack of help' over SARS, *News in brief*, **423**, 472

Pet theory comes to the fore in fight against SARS, *News*, Abbott, A, **423**, 576

SARS, a challenge from the South, *Correspondence*, Singh, J A, **423**, 585

SARS anxiety disrupts conferences, *News in brief*, **423**, 676

China and Germany join forces over SARS, *News*, Abbott, A, **423**, 791

WHO issues rallying cry to keep fight against SARS on track, *News*, Cyranoski, D, **423**, 905

We have been warned, *Opinion*, **424**, 113

Was the fuss overblown?, *News feature*, Pearson, H, **424**, 121

Is the outbreak finally over?, *News feature*, Clarke, T, **424**, 122

Are we prepared for the next viral threat?, *News feature*, Abbott, A, **424**, 123

How and who does SARS kill?, *News feature*, Knight, J, **424**, 123

Where did the SARS virus come from?, *News feature*, Cyranoski, D, **424**, 124

Why China?, *News feature*, Cyranoski, D, **424**, 124

Are drugs for SARS on the horizon?, *News feature*, Abbott, A, **424**, 125

Is the SARS virus mutating?, *News feature*, Knight, J, **424**, 125

What about a vaccine?, *News feature*, Clarke, T, **424**, 126

Improved SARS test cuts final case count in United States, *News in brief*, **424**, 362

Quest for SARS source gathers pace in bid to thwart resurgence, *News*, Abbott, A, **424**, 983

SARS triggers biomedical shake-up in China, *News*, Cyranoski, D, **425**, 333

Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus, *Letter to Nature*, Li, W, Moore, M J, Vasilieva, N, Sui, J, Wong, S K, Berne, M A, Somasundaran, M, Sullivan, J L, Luzuriaga, K, Greenough, T C, Choe, H, Farzan, M, **426**, 450

China: From SARS to the stars, *News feature*, Cyranoski, D, **426**, 752

correlated oxide, Electric field effect in correlated oxide systems, *Progress article*, Ahn, C H, Triscone, J-M, Mannhart, J, **424**, 1015

corrosion, Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Meng, Q, Frankel, G S, Colijn, H O, Goss, S H, **424**, 389

Reply: Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Ryan, M P, Williams, D E, Chater, R J, Hutton, B M, McPhail, D S, **424**, 390

Corynebacterium diphtheriae, Discovery changes view of bacteria, *News*, Knight, J, **423**, 909

cosmeceuticals, Drugs are for beauty too, *Opinion*, **424**, 981

In the eye of the beholder, *News feature*, Pearson, H, **424**, 990

Cosmic Background Explorer, Up, up and away, *News feature*, Reichhardt, T, **421**, 308

cosmic microwave background, Up, up and away, *News feature*, Reichhardt, T, **421**, 308

Cosmologists look forward to clearer picture, *News*, Reichhardt, T, **421**, 777

Cosmology: Filling in the background, *News and views*, Carroll, S, **422**, 26

Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108

A median redshift of 2.4 for galaxies bright at submillimetre wavelengths, *Letter to Nature*, Chapman, S C, Blain, A W, Ivison, R J, Small, I R, **422**, 695

Cosmology: Support for dark energy, *News and views*, Ball, P, **424**, 507

Dodecahedral space topology as an explanation for weak wide-angle temperature correlations in the cosmic microwave background, *Letter to Nature*, Luminet, J-P, Weeks, J R, Riazuelo, A, Lehoucq, R, Uzan, J-P, **425**, 593

The formation of the first low-mass stars from gas with low carbon and oxygen abundances, *Letter to Nature*, Bromm, V, Loeb, A, **425**, 812

A broadband superconducting detector suitable for use in large arrays, *Letter to Nature*, Day, P K, LeDuc, H G, Mazin, B A, Vayonakis, A, Zmuidzinas, J, **425**, 817

Timaeus's insight on the shape of the Universe, *Correspondence*, Giomini, C, **425**, 899

Cosmology: Welcome to the real world, *News feature*, Brumfiel, G, **426**, 751

cosmic radiation, Radiographic imaging with cosmic-ray muons, *Brief communication*, Borozdin, K N, Hogan, G E, Morris, C, Proedhorsky, W C, Saunders, A, Schultz, L J, Teasdale, M E, **422**, 277

cosmic rays, An enhanced cosmic-ray flux towards ζ Persei inferred from a laboratory study of the H_3^+–e^- recombination rate, *Letter to Nature*, McCall, B J, Huneycutt, A J, Saykally, R J, Geballe, T R, Djuric, N, Dunn, G H, Semaniak, J, Novotny, O, Al-Khalili, A, Ehlerding, A, Hellberg, F, Kalhori, S, Neau, A, Thomas, R, Österdahl, F, Larsson, M, **422**, 500

Astrophysics: Pulsar pinpointed, *News and views*, Ball, P, **424**, 740
Enhancements of energetic particles near the heliospheric termination shock, *Letter to Nature*, McDonald, F B, Stone, E C, Cummings, A C, Heikkila, B, Lal, N, Webber, W R, **426**, 48
cosmic waves, Plasma physics: Cosmic waves in the lab, *News and views*, Boswell, R, **425**, 353
cosmochemistry, Obituary: Harmon Craig (1926–2003), *News and views*, Tlurekian, K K, **423**, 701
Cosmochemistry: Inside the cosmic blender, *News and views*, Halliday, A N, **425**, 137
Efficient mixing of the solar nebula from uniform Mo isotopic composition of meteorites, *Letter to Nature*, Becker, H, Walker, R J, **425**, 152
cosmology, Cosmology: Do black holes constrain varying constants?, *Brief communication*, Carlip, S, Vaidya, S, **421**, 498
Cosmologists look forward to clearer picture, *News*, Reichhardt, T, **421**, 777
Cosmology: Filling in the background, *News and views*, Carroll, S, **422**, 26
Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108
Cosmology: The helium legacy of dead stars, *News and views*, Ball, P, **422**, 275
The dark side, *News and views feature*, Fukugita, M, **422**, 489
Faster Than The Speed of Light: The Story of a Scientific Speculation, Magueijo, J, *Book review by* Ellis, G, **422**, 563
Astronomy: Wrestling monsters in deep space, *News and views*, Cowie, L, **422**, 670
Cosmology: A just-so story, *News and views*, Krauss, L M, **423**, 230
Polarization of the prompt γ-ray emission from the γ-ray burst of 6 December 2002, *Letter to Nature*, Coburn, W, Boggs, S E, **423**, 415
The supernova connection, *News and views*, Meszaros, P, **423**, 809
Cosmology: Beyond the inflationary border, *News and views*, Gratton, S, Steinhardt, P, **423**, 817
Cosmology: Support for dark energy, *News and views*, Ball, P, **424**, 507
A γ-ray burst with a high-energy spectral component inconsistent with the synchrotron shock model, *Letter to Nature*, González, M M, Dingus, B L, Kaneko, Y, Preece, R D, Dermer, C D, Briggs, M S, **424**, 749
Connecting Quarks With the Cosmos: Eleven Science Questions for the New Century, Committee on the Physics of the Universe, National Research Council of the National Academics, *Book review by* Rees, M, **425**, 239
Cosmologists cluster to plot course towards dark energy, *News*, Brumfiel, G, **425**, 335
Astrophysics: Dark interactions, *News and views*, Baker, J, **425**, 364
Cosmology: The shape of the Universe, *News and views*, Ellis, G F R, **425**, 566
Dodecahedral space topology as an explanation for weak wide-angle temperature correlations in the cosmic microwave background, *Letter to Nature*, Luminet, J-P, Weeks, J R, Riazuelo, A, Lehoucq, R, Uzan, J-P, **425**, 593
The Sun flares up with a record-breaking burst, *News in brief*, **426**, 112
A common origin for cosmic explosions inferred from calorimetry of GRB0303929, *Letter to Nature*, Berger, E, Kulkarni, S R, Pooley, G, Frail, D A, McIntyre, V, Wark, R M, Sari, R, Soderberg, A M, Fox, D W, Yost, S, Price, P A, **426**, 154
Evolution of the polarization of the optical afterglow of the γ-ray burst GRB030329, *Letter to Nature*, Greiner, J, Klose, S, Reinsch, K, Schmid, H M, Sari, R, Hartmann, D H, Kouveliotou, C, Rau, A, Palazzi, E, Straubmeier, C, Stecklum, B, Zharikov, S, Tovmassian, G, Barnbanter, O, Ries, C, Jehin, E, Henden, A, Kaas, A A, Grav, T, Hjorth, J, Pedersen, H, Wijers, R A M J, Kaufer, A, Park, H-S, Williams, G, Reimer, O, **426**, 157
New Worlds in the Cosmos: The Discovery of Exoplanets, Mayor, M, Frei, P-Y, Roukema, B, *Book review by* Boss, A, **426**, 386
The formation of the Kuiper belt by the outward transport of bodies during Neptune's migration, *Letter to Nature*, Levison, H F, Morbidelli, A, **426**, 419
Cosmology: Welcome to the real world, *News feature*, Brumfiel, G, **426**, 751
cost-benefit analysis, Risk and Reason: Safety, Law, and the Environment, Sunstein, CR, *Book review by* Pierrehumbert, R T, **422**, 263
cotton, transgenic, India debates results of its first transgenic cotton crop, *News*, Jayaraman, K S, **421**, 681
Against the grain, *News feature*, Macilwain, C, **422**, 111
Coulomb charging, Single-electron transistor of a single organic molecule with access to several redox states, *Letter to Nature*, Kubatkin, S, Danilov, A, Hjort, M, Cornil, J, Brédas, J-L, Stuhr-Hansen, N, Hedegard, P, Bjornholm, T, **425**, 698
coulomb fission, Coulomb fission: Rayleigh jets from levitated microdroplets, *Brief communication*, Duft, D, Achtzehn, T, Muller, R, Huber, B A, Leisner, T, **421**, 128
coumarin, Photocontrolled reversible release of guest molecules from coumarin-modified mesoporous silica, *Letter to Nature*, Mal, N K, Fujiwara, M, Tanaka, Y, **421**, 350
CP violation, Antimatter matters, *News and views feature*, Ellis, J, **424**, 631
CPT transformation, Antimatter matters, *News and views feature*, Ellis, J, **424**, 631
Crab nebula, Nanosecond radio bursts from strong plasma turbulence in the Crab nebula, *Letter to Nature*, Hankins, T H, Kern, J S, Weatherall, J C, Ellek, J A, **422**, 141
Quantum gravity: An astrophysical constraint, *News and views*, Carroll, S, **424**, 1007
A strong astrophysical constraint on the violation of special relativity by quantum gravity, *Letter to Nature*, Jacobson, T, Liberati, S, Mattingly, D, **424**, 1019
crab-spiders, Pollinator attraction: Crab-spiders manipulate flower signals, *Brief communication*, Heiling, A M, Herberstein, M E, Chittka, L, **421**, 334
crabs, Robust judgement of inter-object distance by an arthropod, *Letter to Nature*, Hemmi, J M, Zell, J, **421**, 160
cracking, Materials science: Close-up on cracks, *News and views*, Fineberg, **426**, 131
Hyperelasticity governs dynamic fracture at a critical length scale, *Article*, Buehler, M J, Abraham, F F, Gao, H, **426**, 141
Craig, Harmon, Obituary: Harmon Craig (1926–2003), *News and views*, Tlurekian, K K, **423**, 701
cranial neural crest, Cranial skeletal biology, *Insight review article*, Helms, J A, Schneider, R A, **423**, 326
cranial skeleton, Cranial skeletal biology, *Insight review article*, Helms, J A, Schneider, R A, **423**, 326
craniosynostosis, The BMP antagonist noggin regulates cranial suture fusion, *Letter to Nature*, Warren, S M, Brunet, L J, Harland, R M, Economides, A N, Longaker, M T, **422**, 625
cratons, Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68
crayfish, Ecology: Parthenogenesis in an outsider crayfish, *Brief communication*, Scholtz, G, Braband, A, Tolley, L, Reimann, A, Mittmann, B, Lukhaup, C, Steuerwald, F, Vogt, G, **421**, 806
CREB, CREB controls hepatic lipid metabolism through nuclear hormone receptor PPAR-γ, *Letter to Nature*, Herzig, S, Hedrick, S, Morantte, I, Koo, S-H, Galimi, F, Montminy, M, **426**, 190
creep, Earth science: Getting the measure of creep, *News and views*, Clarke, T, **421**, 709
Creep-strengthening of steel at high temperatures using nano-sized carbonitride dispersions, *Letter to Nature*, Taneike, M, Abe, F, Sawada, K, **424**, 294
Cretaceous period, Earliest known crown-group salamanders, *Letter to Nature*, Gao, K-Q, Shubin, N H, **422**, 424
Migration of a Late Cretaceous fish, *Letter to Nature*, Carpenter, S J, Erickson, J M, Hollan Jr, F D, **423**, 70
Palaeontology: Spider-web silk from Early Cretaceous, *Brief communication*, Zschokke, S, **424**, 636
Large Cretaceous sphenodontian from Patagonia provides insight into lepidosaur evolution in Gondwana, *Letter to Nature*, Apesteguia, S, Novas, F E, **425**, 609
Meteorite impacts: Dinosaurs were not roasted, *News and views*, Ball, P, **426**, 618
Creutzfeld–Jakob disease, new variant, Spongiform encephalopathies: Propagating warped prions, *News and views*, Pearson, H, **422**, 677
Study breeds cautious optimism over vCJD, *News in brief*, **422**, 8
Monoclonal antibodies inhibit prion replication and delay the development of prion disease, *Letter to Nature*, White, A R, Enever, P, Tayebi, M, Mushens, R, Linehan, J, Brandner, S, Anstee, D, Collinge, J, Hawke, S, **422**, 80
Prion diseases: Cannibals and garbage piles, *News and views*, Aguzzi, A, Heikenwalder, M, **423**, 127
Routine tests reveal unknown strains of BSE prions, *News*, Willerroider, M, **425**, 648
Rapid drug trial offers hope to CJD patients, *News*, Giles, J, **426**, 487
Crick, Francis, Crick's immodest ambitions, *Opinion*, **422**, 455
Watching an IT icon slide into history, *Correspondence*, Cram, W J, **422**, 801
How genius can smooth the road to publication, *Correspondence*, Brummer, J, **426**, 119
Reply: How genius can smooth the road to publication, *Correspondence*, Maddox, J, **426**, 119
cricket, Psychophysics: How fielders arrive in time to catch the ball, *Brief communication*, McLeod, P, Reed, N, Dienes, Z, **426**, 244
crime, Violence viewed by psychopathic murderers, *Brief communication*, Gray, N S, MacCulloch, M J, Smith, J, Morris, M, Snowden, R J, **423**, 497
criminology, The lab arm of the law, *News feature*, Giles. J, **422**, 13
Violence viewed by psychopathic murderers, *Brief communication*, Gray, N S, MacCulloch, M J, Smith, J, Morris, M, Snowden, R J, **423**, 497
critical habitats, Biologists seek havens for species at risk, *News*, Dalton, R, **425**, 754
Cro-Magnons, Genetics to unlock secrets of our African past, *News*, Cherry, M, **422**, 460
Were Cro-Magnons too like us for DNA to tell?, *Correspondence*, Barbujani, G, Bertorelle, G, **424**, 127
crooked, Plant biology: Growing pains, *News and views*, Heemels, M-T, **423**, 820
crop breeding, A dying breed, *News feature*, Knight, J, **421**, 568
Novel and conventional paths to a better banana, *Correspondence*, Jones, D, **421**, 889
Classical plant breeding is the route to food security, *Correspondence*, Thro, A M, Zankowski, P, **422**, 559
crops, Ecology: Is fertilization efficiency misleading?, *Brief communication*, Hafner, S D, **422**, 397
Reply: Ecology: Is fertilization efficiency misleading?, *Brief communication*, Tilman, D, Cassman, K G, Matson, P A, Naylor, R, Polasky, S, **422**, 398
crust, Earth's, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley, S F, Buhre, S, Jacob, D E, **421**, 249
Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean, *Letter to Nature*, Edmonds, H N, Michael, P J, Baker, E T, Connelly, D P, Snow, J E, Langmuir, C H, Dick, H J B, Muhe, R, German, C R, Graham, D W, **421**, 252
Geochemistry: Lost terrains of early Earth, *News and views*, Jacobsen, S B, **421**, 901
Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites, *Letter to Nature*, Bizzarro, M, Baker, J A, Haack, H, Ulfbeck, D, Rosing, M, **421**, 931
Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas, *Letter to Nature*, Sun, W, Bennett, V C, Eggins, S M, Kamenetsky, V S, Arculus, R J, **422**, 294
Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68
Remote triggering of deep earthquakes in the 2002 Tonga sequences, *Letter to Nature*, Tibi, R, Wiens, D A, Inoue, H, **424**, 921
Bending-related faulting and mantle serpentinization at the Middle America trench, *Article*, Ranero, C R, Phipps Morgan, J, McIntosh, K, Reichert, C, **425**, 367
crustaceans, Evolutionary biology: Asexual means of mutation control, *News and views*, Whitfield, J, **422**, 393
crustal faults, Damage to the shallow Landers fault from the nearby Hector Mine earthquake, *Letter to Nature*, Vidale, J E, Li, Y-G, **421**, 524
Cry proteins, Rhythmic histone acetylation underlies transcription in the mammalian circadian clock, *Letter to Nature*, Etchegaray, J-P, Lee, C, Wade, P A, Reppert, S M, **421**, 177
cryogenic detectors, A broadband superconducting detector suitable for use in large arrays, *Letter to Nature*, Day, P K, LeDuc, H G, Mazin, B A, Vayonakis, A, Zmuidzinas, J, **425**, 817
cryogenics, Cold wars: A History of Superconductivity, Matricon, J, Waysand, G, *Book review by* Anderson, P W, **426**, 17
cryptography, Quantum cryptography: Code-breakers confounded, *News and views*, Hillery, M, **421**, 224
Cryptothallus mirabilis, Ecology: A liverwort cheat, *News and views*, Lincoln, T, **422**, 826
crystal, In search of clarity, *Concepts*, Desiraju, G R, **423**, 485
Crystal: clear difference from glass, *Correspondence*, Moreira, B C, **423**, 917
Crystal: ever-evolving and expanding in scope, *Correspondence*, Seitz, R, **423**, 917
crystal fibres, Photonic crystal fibres, *Insight review article*, Knight, J C, **424**, 846
crystal structures, Crystal structure of the human angiotensin-converting enzyme-lisinopril complex, *Letter to Nature*, Natesh, R, Schwager, S L U, Sturrock, E D, Acharya, K R, **421**, 551
Crystal structure of the specificity domain of ribonuclease P, *Letter to Nature*, Krasilnikov, A S, Yang, X, Pan, T, Mondragon, A, **421**, 760
Retraction: Metal-insulator transition in chains with correlated disorder, *Letter to Nature*, Carpena, P, Bernaola-Galvan, P, Ivanov, P Ch, Stanley, H E, **421**, 764
Chemistry: Levitation lights up crystals, *News and views*, Helmer, M, **422**, 33
Crystal structure of a transcription factor IIIB core interface ternary complex, *Letter to Nature*, Juo, Z S, Kassavetis, G A, Wang, J, Geiduschek, E P, Sigler, P B, **422**, 534
Insights into IgA-mediated immune responses from the crystal structures of human FcαRI and its complex with IgA1-Fc, *Article*, Herr, A B, Ballister, E R, Bjorkman, P J, **423**, 614
The crystal's in the mail, *News feature*, Smith Schmidt, T, **423**, 799
Modulated structure of solid iodine during its molecular dissociation under high pressure, *Letter to Nature*, Kenichi, T, Kyoko, S, Hiroshi, F, Mitsuko, O, **423**, 971
Crystal structure of human cytochrome P450 2C9 with bound warfarin, *Letter to Nature*, Williams, P A, Cosme, J, Ward, A, Angove, H C, Vinkovic, D M, Jhoti, H, **424**, 464
Crystal structure of the transfer-RNA domain of transfer-messenger RNA in complex with SmpB, *Letter to Nature*, Gutmann, S, Haebel, P W, Metzinger, L, Sutter, M, Felden, B, Ban, N, **424**, 699
Photonics: Defective quality, *News and views*, Gerstner, E, **425**, 912
Bone recognition mechanism of porcine osteocalcin from crystal structure, *Letter to Nature*, Hoang, Q Q, Sicheri, F, Howard, A J, Yang, D S C, **425**, 977
Synthetic design of crystalline inorganic chalcogenides exhibiting fast-ion conductivity, *Letter to Nature*, Zheng, N, Bu, X, Feng, P, **426**, 428
Chemistry: Cellulose stacks up, *News and views*, Jarvis, M, **426**, 611
Chirality: Organic films with a twist, *News and views*, Ward, M D, **426**, 615
Crystal structure of plant photosystem I, *Article*, Ben-Shem, A, Frolow, F, Nelson, N, **426**, 630
Subatomic movements of a domain wall in the Peierls potential, *Letter to Nature*, Novoselov, K S, Geim, A K, Dubonos, S V, Hill, E W, Grigorieva, I V, **426**, 812
crystallins, Nuclear cataract caused by a lack of DNA degradation in the mouse eye lens, *Letter to Nature*, Nishimoto, S, Kawane, K, Watanabe-Fukunaga, R, Fukuyama, H, Ohsawa, Y, Uchiyama, Y, Hashida, N, Ohguro, N, Tano, Y, Morimoto, T, Fukuda, Y, Nagata, S, **424**, 1071
crystallography, Direct observation of a local thermal vibration anomaly in a quasicrystal, *Letter to Nature*, Abe, E, Pennycook, S J, Tsai, A P, **421**, 347
In search of clarity, *Concepts*, Desiraju, G R, **423**, 485
DNA discoveries through crystallography, *Correspondence*, Subirana, J A, **423**, 683
An off-normal fibre-like texture in thin films on single-crystal

substrates, *Letter to Nature*, Detavernier, C, Ozcan, A S, Jordan-Sweet, J, Stach, E A, Tersoff, J, Ross, F M, Lavoie, C, **426**, 641

crystals, colloidal, Condensed-matter physics: Tunable colloidal crystals, *News and views*, Russel, W B, **421**, 490

A colloidal model system with an interaction tunable from hard sphere to soft and dipolar, *Letter to Nature*, Yethiraj, A, van Blaaderen, A, **421**, 513

CtBP protein, Coordinated histone modifications mediated by a CtBP co-repressor complex, *Letter to Nature*, Shi, Y, Sawada, J-I, Sui, G, Affar, E B, Whetstline, J R, Lan, F, Ogawa, H, Luke, M P-S, Nakatani, Y, Shi, Y, **422**, 735

***CTLA4* gene**, Association of the T-cell regulatory gene *CTLA4* with susceptibility to autoimmune disease, *Article*, Ueda, H, Howson, J M M, Esposito, L, Heward, J, Snook, H, Chamberlain, G, Rainbow, D B, Hunter, K M D, Smith, A N, Di Genova, G, Herr, M H, Dahlman, I, Payne, F, Smyth, D, Lowe, C, Twells, R C J, Howlett, S, Healy, B, Nutland, S, Rance, H E, Everett, V, Smink, L J, Lam, A C, Cordell, H J, Walker, N M, Bordin, C, Hulme, J, Motzo, C, Cucca, F, Hess, J F, Metzker, M L, Rogers, J, Gregory, S, Allahabadia, A, Nithiyananthan, R, Tuomilehto-Wolf, E, Tuomilehto, J, Bingley, P, Gillespie, K M, Undlien, D E, Ronningen, K S, Guja, C, Ionescu-Tîrgovişte, C, Savage, D A, Maxwell, A P, Carson, D J, Patterson, C C, Franklyn, J A, Clayton, D G, Peterson, L B, Wicker, L S, Todd, J A, Gough, S C L, **423**, 506

cuckoos, Escalation of a coevolutionary arms race through host rejection of brood parasitic young, *Letter to Nature*, Langmore, N E, Hunt, S, Kilner, R M, **422**, 157

CUL-3, biquitin ligase, The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase, *Letter to Nature*, Pintard, L, Willis, J H, Willems, A, Johnson, J-L F, Srayko, M, Kurz, T, Glaser, S, Mains, P E, Tyers, M, Bowerman, B, Peter, M, **425**, 311

BTB proteins are substrate-specific adaptors in an SCF-like modular ubiquitin ligase containing CUL-3, *Letter to Nature*, Xu, L, Wei, Y, Reboul, J, Vaglio, P, Shin, T-H, Vidal, M, Elledge, S J, Harper, J W, **425**, 316

CUL-4, CUL-4 ubiquitin ligase maintains genome stability by restraining DNA-replication licensing, *Letter to Nature*, Zhong, W, Feng, H, Santiago, F E, Kipreos, E T, **423**, 885

culling, Disease spread leads Britain to pull plug on trial badger cull, *News*, Giles, J, **426**, 4

Primatologists rocks Gibraltar by quitting over macaque cull, *News*, Schiermeier, Q, **426**, 111

Ecology: Badger cull culled, *News and views*, Roper, T J, **426**, 782

Impact of localized badger culling on tuberculosis incidence in British cattle, *Letter to Nature*, Donnelly, C A, Woodroffe, R, Cox, D R, Bourne, J, Gettinby, G, Le Fevre, A M, McInerney, J P, Morrison, W I, **426**, 834

cullins, Exclusion of germ plasm proteins from somatic lineages by cullin-dependent degradation, *Letter to Nature*, DeRenzo, C, Reese, K J, Seydoux, G, **424**, 685

biquitin ligase, The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase, *Letter to Nature*, Pintard, L, Willis, J H, Willems, A, Johnson, J-L F, Srayko, M, Kurz, T, Glaser, S, Mains, P E, Tyers, M, Bowerman, B, Peter, M, **425**, 311

BTB proteins are substrate-specific adaptors in an SCF-like modular ubiquitin ligase containing CUL-3, *Letter to Nature*, Xu, L, Wei, Y, Reboul, J, Vaglio, P, Shin, T-H, Vidal, M, Elledge, S J, Harper, J W, **425**, 316

cultural heritage, Recovering from cultural devastation, *Opinion*, **423**, 465

Cxcr4 protein, Developmental biology: Germ-cell attraction, *News and views*, Kunwar, P S, Lehmann, R, **421**, 226

A zebrafish homologue of the chemokine receptor *Cxcr4* is a germ-cell guidance receptor, *Letter to Nature*, Knaut, H, Werz, C, Geisler, R, Busch-Nentwich, E, Dahm, R, Frohnhofer, H-G, Geiger, H, Gilmour, D, Holley, S, Hooge, J, Julich, D, Maderspacher, F, Maischein, H-M, Neumann, C, Nicolson, T, Roehl, H, Schonberger, U, Seiler, C, Sollner, C, Sonawane, M, van Bebber, F, Wehner, A, Weiler, C, Erkert, P, Habeck, H, Hagner, U, Hennen Kaps, C E, Kirchner, A, Koblizek, T, Langheinrich, U, Loeschke, C, Metzger, C, Nordin, R, Odenthal, J, Pezzuti, M, Schlombs, K, deSantana-Stamm, J, Trowe, T, Vacun, G, Walderich, B, Walker, A, Weiler, C, Nusslein-Volhard, C, **421**, 279

Chemokine receptor CXCR4 downregulated by von Hippel-Lindau tumour suppressor pVHL, *Letter to Nature*, Staller, P, Sulitkova, J, Lisztwan, J, Moch, H, Oakeley, E J, Krek, W, **425**, 307

cyanobacteria, Photosynthesis: A new function for an old cytochrome?, *Brief communication*, Molina-Heredia, F P, Wastl, J, Navarro, J A, Bendall, D S, Hervas, M, Howe, C J, De la Rosa, M A, **424**, 33

Bacterial photosynthesis genes in a virus, *Brief communication*, Mann, N H, Cook, A, Millard, A, Bailey, S, Clokie, M, **424**, 741

The genome of a motile marine *Synechococcus*, *Letter to Nature*, Palenik, B, Brahamsha, B, Larimer, F W, Land, M, Hauser, L, Chain, P, Lamerdin, J, Regala, W, Allen, E E, McCarren, J, Paulsen, I, Dufresne, A, Partensky, F, Webb, E A, Waterbury, J, **424**, 1037

Genome divergence in two *Prochlorococcus* ecotypes reflects oceanic niche differentiation, *Letter to Nature*, Rocap, G, Larimer, F W, Lamerdin, J, Malfatti, S, Chain, P, Ahigren, N A, Arellano, S, Coleman, M, Hauser, L, Hess, W R, Johnson, Z I, Land, M, Lindell, D, Post, A F, Regala, W, Shah, M, Shaw, S L, Steglich, C, Sullivan, M B, Ting, C S, Tolonen, A, Webb, E A, Zinser, E R, Chisholm, S W, **424**, 1042

Cyanophages infecting the oceanic cyanobacterium *Prochlorococcus*, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **424**, 1047

Low-light-adapted *Prochlorococcus* species possess specific antennae for each photosystem, *Letter to Nature*, Bibby, T S, Mary, I, Nield, J, Partensky, F, Barber, J, **424**, 1051

Temperature excludes N2-fixing heterocystous cyanobacteria in the tropical oceans, *Letter to Nature*, Staal, M, Meysman, F J R, Stal, L J, **425**, 504

Structural biology: Dual approach to a light problem, *News and views*, Kuhlbrandt, W, **426**, 399

Corrigendum: Cyanophages infecting the oceanic cyanobacterium Prochlorococcus, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **426**, 584

Crystal structure of plant photosystem I, *Article*, Ben-Shem, A, Frolow, F, Nelson, N, **426**, 630

cyanophages, Genome sequences from the sea, *News and views*, Fuhrman, J, **424**, 1001

Cyanophages infecting the oceanic cyanobacterium *Prochlorococcus*, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **424**, 1047

Corrigendum: Cyanophages infecting the oceanic cyanobacterium Prochlorococcus, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **426**, 584

cyborgs, Natural-born Cyborgs: Minds, Technologies, and the future of Human Intelligence, Clarke, A, *Book review by* Ihle, D, **424**, 615

cyclic AMP, Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning, *Letter to Nature*, Nishiyama, M, Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-m, Hong, K, **423**, 990

cyclic GMP, Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning, *Letter to Nature*, Nishiyama, M, Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-m, Hong, K, **423**, 990

cyclin D1 protein, Cancer: Hostile takeover, *News and views*, Heemels, M-T, **424**, 898

cyclin-dependent kinases, Targets of the cyclin-dependent kinase Cdk1, *Letter to Nature*, Ubersax, J A, Woodbury, E L, Quang, P N, Paraz, M, Blethrow, J D, Shah, K, Shokat, K M, Morgan, D O, **425**, 859

Corrigendum: Cdc6 cooperates with Sic1 and Hct1 to inactivate mitotic cyclin-dependent kinases, *Letter to Nature*, Calzada, A, Sacristan, M, Sanchez, E, Bueno, A, **426**, 584

cyclones, Reduced drag coefficient for high wind speeds in tropical cyclones, *Article*, Powell, M D, Vickery, P J, Reinhold, T A, **422**, 279

Oceanography: Bloom in cyclone, *News and views*, Lincoln, T, **424**, 630

Meteorology: Oscillating eyes, *News and views*, Clarke, T, **425**, 253

CYFIP, Neurobiology: Wiring the brain, *News and views*, Pearson, H, **423**, 935

CYLD, CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members, *Letter to Nature*, Trompouki, E, Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G, **424**, 793

The tumour suppressor CYLD negatively regulates NF-κB signalling by deubiquitination, *Letter to Nature*, Kovalenko, A, Chable-Bessia, C, Cantarella, G, Israel, A, Wallach, D, Courtois, G, **424**, 801

cysteine, Oxidation state of the active-site cysteine in protein tyrosine phosphatase 1B, *Letter to Nature*, van Montfort, R L M, Congreve, M, Tisi, D, Carr, R, Jhoti, H, **423**, 773

cysteine-sulphinic acid, ATP-dependent reduction of cysteine-sulphinic acid by *S. cerevisiae* sulphiredoxin, *Letter to Nature*, Biteau, B, Labarre, J, Toledano, M B, **425**, 980

cystic fibrosis, Control of dynamic CFTR selectivity by glutamate and ATP in epithelial cells, *Letter to Nature*, Reddy, M M, Quinton, P M, **423**, 756

The DNA sequence of human chromosome 7, *Article*, Hillier, L W, Fulton, R S, Fulton, L A *et al.* (See footnote 2 on p. 59 for full author list), **424**, 157

Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905

cytidine deaminase, The cytidine deaminase CEM15 induces hypermutation in newly synthesized HIV-1 DNA, *Letter to Nature*, Zhang, H, Yang, B, Pomerantz, R J, Zhang, C, Arunachalam, S C, Gao, L, **424**, 94

cytidine deaminase, activation-induced, Processive AID-catalysed cytosine deamination on single stranded DNA simulates somatic hypermutation, *Letter to Nature*, Pham, P, Bransteitter, R, Petruska, J, Goodman, M F, **424**, 103

cytochrome b_6f, Structural biology: Dual approach to a light problem, *News and views*, Kuhlbrandt, W, **426**, 399

An atypical haem in the cytochrome b_6f complex, *Article*, Stroebel, D, Choquet, Y, Popot, J-L, Picot, D, **426**, 413

cytochrome *c6*, Photosynthesis: A new function for an old cytochrome?, *Brief communication*, Molina-Heredia, F P, Wastl, J, Navarro, J A, Bendall, D S, Hervas, M, Howe, C J, De la Rosa, M A, **424**, 33

cytochrome P450, Crystal structure of human cytochrome P450 2C9 with bound warfarin, *Letter to Nature*, Williams, P A, Cosme, J, Ward, A, Angove, H C, Vinkovic, D M, Jhoti, H, **424**, 464

With your genes? Take one of these, three times a day, *News feature*, Abbott, A, **425**, 760

cytokines, Autoimmunity: A case of mistaken identity, *News and views*, Watford, W T, O'Shea, J J, **421**, 706

Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744

Evolving concepts of rheumatoid arthritis, *Insight review article*, Firestein, G S, **423**, 356

Histone H3 phosphorylation by IKK-a is critical for cytokine-induced gene expression, *Letter to Nature*, Yamamoto, Y, Verma, U N, Prajapati, S, Kwak, Y-T, Gaynor, R B, **423**, 655

Viral infection switches non-plasmacytoid dendritic cells into high interferon producers, *Letter to Nature*, Diebold, S S, Montoya, M, Unger, H, Alexopoulou, L, Roy, P, Haswell, L E, Al-Shamkhani, A, Flavell, R, Borrow, P, Reis e Sousa, C, **424**, 324

Immunology: Another toll road, *News and views*, Yeh, W-C, Chen, N-J, **424**, 736

Medicine: Cancer-killing virus on a drip, *News and views*, Heemels, M-T, **426**, 28

cytokinesis, Cell division, *Insight review article*, Scholey, J M, Brust-Mascher, I, Mogilner, A, **422**, 746

cytokinins, Plant physiology: Needles point to pollution, *News and views*, Surridge, C, **426**, 784

cytomegalovirus, Cell biology: Tumour suppressors in the wrecking yard, *News and views*, Plicher, H R, **422**, 487

Epidermal growth factor receptor is a cellular receptor for human cytomegalovirus, *Letter to Nature*, Wang, X, Huong, S-M, Chiu, M L, Raab-Traub, N, Huang, E-S, **424**, 456

cytoskeleton, The cytoskeleton, cellular motility and the reductionist agenda, *Insight overview*, Pollard, T D, **422**, 741

Cell division, *Insight review article*, Scholey, J M, Brust-Mascher, I, Mogilner, A, **422**, 746

Dynamics and mechanics of the microtubule plus end, *Insight review article*, Howard, J, Hyman, A A, **422**, 753

Molecular motors, *Insight review article*, Schliwa, M, Woehlke, G, **422**, 759

Adaptation of core mechanisms to generate cell polarity, *Insight review article*, Nelson, W J, **422**, 766

Microbial pathogenesis and cytoskeletal function, *Insight review article*, Gruenheid, S, Finlay, B B, **422**, 775

Two-piconewton slip bond between fibronectin and the cytoskeleton depends on talin, *Letter to Nature*, Jiang, G, Glannone, G, Critchley, D R, Fukumoto, E, Sheetz, M P, **424**, 334

Czech Republic, Czech stem-cell work heightens calls for EU ruling, *News*, Abbott, A, **424**, 602

da Vinci, Leonardo, Leonardo lifts off, *Science in culture*, Kemp, M, **421**, 792

Illustration: A fine body of work, *Book review*, Purton, M, **423**, 921

Leonardo know the fluid boundaries of science, *Correspondence*, Grillo, S E, **426**, 15

Dachau concentration camp, Letters reveal scale of German agency's Nazi corruption, *News*, Schiermeier, Q, **425**, 650

DAF-16, Genes that act downstream of DAF-16 to influence the lifespan of *Caenorhabditis elegans*, *Article*, Murphy, C T, McCarroll, S A, Bargmann, C I, Fraser, A, Kamath, R S, Ahringer, J, Li, H, Kenyon, C, **424**, 277

dairy products, Coronary Artery Disease: Genes, Drugs, and the Agricultural Connection, Faergeman, O, *Book review by* Nestle, M, **425**, 902

Dalai Lama, DNA lab welcomes Dalai Lama to Tibetan science community, *News*, Check, E, **425**, 335

Dali, Salvador, Dali and the double helix, *Correspondence*, Guardiola, E, Banos, J-E, **423**, 917

Damadian, Raymond, Physician launches public protest over medical Nobel, *News*, Pearson, H, **425**, 648

Russian claims first in magnetic imaging, *News*, MacWilliams, B, **426**, 375

Nobel protester gets Swedish physics gong, *News in brief*, **426**, 596

Dan David Prizes, Hunts for neutrinos and hominids pay off, *News in brief*, **422**, 366

dance, Making a song and dance about emotion, *Correspondence*, Marshall, R C, **423**, 221

Danilov, Valentin, Russian scientists face long fight for justice, *News*, MacWilliams, B, **424**, 477

Danish Biotechnology Instrument Center, Danish biotech centre faces axe, *News*, Abbott, A, **422**, 105

Dansgaard–Oeschger climate oscillations, Precise dating of Dansgaard-Oeschger climate oscillations in western Europe from stalagmite data, *Letter to Nature*, Genty, D, Blamart, D, Ouahdi, R, Gilmour, M, Baker, A, Jouzel, J, Van-Exter, S, **421**, 833

dark energy, Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108

Cosmology: Support for dark energy, *News and views*, Ball, P, **424**, 507

Cosmologists cluster to plot course towards dark energy, *News*, Brumfiel, G, **425**, 335

US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887

dark matter, Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108

The dark side, *News and views feature*, Fukugita, M, **422**, 489

Astrophysics: Dark interactions, *News and views*, Baker, J, **425**, 364

A gravitationally lensed quasar with quadruple images separated by 14.62 arcseconds, *Letter to Nature*, Inada, N, Oguri, M, Pindor, B, Hennawi, J F, Chiu, K, Zheng, W, Ichikawa, S-I, Gregg, M D, Becker, R H, Suto, Y, Strauss, M A, Turner, E L, Keeton, C R, Annis, J, Castander, F J, Eisenstein, D J, Frieman, J A, Fukugita, M, Gunn, J E, Johnston, D E, Kent, S M, Nichol, R C, Richards, G T, Rix, H-W, Sheldon, E S, Bahcall, N A, Brinkmann, J, Ivezic, Z, Lamb, D Q, McKay, T A, Schneider, D P, York, D G, **426**, 810

darkness, Optics: Colourful 'black holes', *News and views*, Ball, P, **426**, 514

- **Darwin, Charles**, Darwin's Blind Spot: Evolution Beyond Natural Selection, Ryan, F, *Book review by* Frank, S, A, **421**, 579
  - Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution, Shennan, S, *Book review by* Bettinger, R L, **422**, 20
  - A plea for diversity, *News feature*, Gewin, V, **422**, 368
  - Darwin and Barnacle, Stott, R, *Book review by* Schram, F R, **422**, 472
  - Evolution's Captain: The Tragic Fate of Robert FitzRoy, the Man who Sailed Charles Darwin Around the World, Nichols, P, *Book review by* Thomson, K, **425**, 18
  - FitzRoy: The Remarkable Story of Darwin's Captain and the Invention of the Weather Forecast, Gribbin, J, Gribbin, M, *Book review by* Thomson, K, **425**, 18
  - What Darwin knew, *Correspondence*, Abler, W L, **426**, 759
- **Darwin Mounds**, Europe bans deep-sea trawling to save coral, *News in brief*, **424**, 988
- ***Darwinula stevensoni***, Evolutionary biology: Asexual means of mutation control, *News and views*, Whitfield, J, **422**, 393
- **data storage**, The light fantastic, *News feature*, Haw, M, **422**, 556
  - Controlling anisotropic nanoparticle growth through plasmon excitation, *Letter to Nature*, Jin, R, Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A, **425**, 487
- **databases**, Spiritual link is part of traditional knowledge, *Correspondence*, Kitchikeesic Juden, L, **421**, 313
  - Fury at plan to split historic biology archive, *News*, Dalton, R, **421**, 564
  - DNA study deepens rift over Iceland's genetic heritage, *News*, Abbott, A, **421**, 678
  - Error reports threaten to unravel databases of mitochondrial DNA, *News*, Dennis, C, **421**, 773
  - Free access to publicly funded databases is essential, *Correspondence*, Bourne, P E, **421**, 786
  - Sacrifice for the greater good, *Editorial*, **421**, 875
  - The latest genomics, straight to your phone, *News in brief*, **422**, 8
  - Auction of DNA archive cancelled, *News*, Dalton, R, **422**, 102
  - Biomedical informatics for proteomics, *Insight review article*, Boguski, M S, McIntosh, M W, **422**, 233
  - Illustration: database pictures tell a true story, *Correspondence*, Catton, C, Shotton, D, **422**, 374
  - The price of collecting life, *Commentary*, Smith, G F, Steenkamp, Y, Klopper, R R, Siebert, S J, Arnold, T H, **422**, 375
  - Progressing towards a biological names register, *Correspondence*, Patterson, D J, **422**, 661
  - Biologists deploy database to quash drug-resistant bacteria, *News*, Clarke, T, **422**, 791
  - Improving science through online commentary, *Correspondence*, Eagleman, D M, Holcombe, A O, **423**, 15
  - Einstein enthusiasts gain net benefit, *News in brief*, **423**, 374
  - Biologists moot daunting plan to track viruses, *News*, Knight, J, Abbott, A, **423**, 471
  - International website to collate data on embryonic stem cells, *News in brief*, **423**, 578
  - Clinical data marshalled to treat HIV, *News*, Clarke, T, **423**, 791
  - Mammal experts get networking opportunity, *News in brief*, **424**, 480
  - Setting the record straight, *News feature*, Schiermeier, Q, **424**, 482
  - Online database: Island investigations, *Book review*, Abbott, A, **424**, 491
  - Organic Syntheses Database 2003, Wiley/Organic Syntheses Inc *Book review by* Mann, J, **426**, 122
- **dating**, Archaeology: The dating game, *News and views*, Lincoln, T, **424**, 898
- **Daugherty, Robert**, South Florida rocked as dean quits over political funding, *News*, Dalton, R, **425**, 889
- **Deacon, Richard**, Deacon's nucleic acid, *Science in culture*, Kemp, M, **423**, 483
- **Dead Sea transform**, Boundary-layer mantle flow under the Dead Sea transform fault inferred from seismic anisotropy, *Letter to Nature*, Rumpker, G, Ryberg, T, Bock, G, Desert Seismology Group, **425**, 497
- **deafness**, Windfall spurs rare Israeli-Palestinian research effort, *News*, Adam, D, **421**, 777
- **death**, Unnatural causes, *Exhibition review*, Abbott, A, **425**, 347
- **decaffeinated coffee**, RNA interference: Producing decaffeinated coffee plants, *Brief communication*, Ogita, S, Uefuji, H, Yamaguchi, Y, Koizumi, N, Sano, H, **423**, 823
- **Decision Investmenst Corporation**, Biosphere owner sues sponsor, *News*, Gewin, V, **422**, 461
- **decision-making**, Group decision-making in animals, *Letter to Nature*, Conradt, L, Roper, T J, **421**, 155
  - Freedom evolves, Dennett, D, *Book review by* Konner, M, **423**, 17
  - Social insects: Cuticular hydrocarbons inform task decisions, *Brief communication*, Greene, M J, Gordon, D M, **423**, 32
  - Decisions, Uncertainty, and the Brain: The Science of Neuroeconomics, Glimcher, P W, *Book review by* Montague, P R, **424**, 371
- **deCODE Genetics**, DNA study deepens rift over Iceland's genetic heritage, *News*, Abbott, A, **421**, 678
- **decompression sickness**, Gas-bubble lesions in stranded cetaceans, *Brief communication*, Jepson, P D, Arbelo, M, Deaville, R, Patterson, I A P, Castro, P, Baker, J R, Degollada, E, Ross, H M, Herraez, P, Pocknell, A M, Rodriguez, F, Howie, F E, Espinosa, A, Reid, R J, Jaber, J R, Martin, V, Cunningham, A A, Fernandez, A, **425**, 575
- **deep-sea biology**, Deep-sea sub aims to get to the bottom of a muddy issue, *News*, Schiermeier, Q, **423**, 469
- **deep-sea fish**, Close encounters of the jelly kind, *News feature*, Dennis, C, **426**, 12
  - Aircraft give a new view of jellyfish behaviour, *Correspondence*, Hays, G C, Houghton, J D R, **426**, 383
- **deep-water continental margins**, Understanding the thermal evolution of deep-water continental margins, *Insight review article*, White, N, Thompson, M, Barwise, T, **426**, 334
- **defensins**, Microbiology: Gut defence, *News and views*, Ganz, T, **422**, 478
  - Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin, *Letter to Nature*, Salzman, N H, Ghosh, D, Huttner, K M, Paterson, Y, Bevins, C L, **422**, 522
- **defoliants**, Flight records reveal full extent of Agent Orange contamination, *News*, Butler, D, **422**, 649
  - The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
  - Agent Orange health investigation stuck at square one, *News*, Butler, D, **422**, 793
- **deforestation**, Fire science for rainforests, *Review article*, Cochrane, M A, **421**, 913
  - Environmental science: Shades of China, *News and views*, Clarke, T, **423**, 134
  - Catastrophic extinctions follow deforestation in Singapore, *Letter to Nature*, Brook, B W, Sodhi, N S, Ng, P K L, **424**, 420
- **deglaciation**, Global change: Leads, lags and the tropics, *News and views*, Dunbar, R B, **421**, 121
  - Magnitude and timing of temperature change in the Indo-Pacific warm pool during deglaciation, *Letter to Nature*, Visser, K, Thunell, R, Stott, L, **421**, 152
  - Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation, *Letter to Nature*, Knorr, G, Lohmann, G, **424**, 532
- **degrons**, Functional proteomic identification of DNA replication proteins by induced proteolysis *in vivo*, *Article*, Kanemaki, M, Sanchez-Diaz, A, Gambus, A, Labib, K, **423**, 720
- ***Dehalococcoides* spp.**, Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium, *Letter to Nature*, Bunge, M, Adrian, L, Kraus, A, Opel, M, Lorenz, W G, Andreesen, J R, Görlsch, H, Lechner, U, **421**, 357
- **dehalogenation**, Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium, *Letter to Nature*, Bunge, M, Adrian, L, Kraus, A, Opel, M, Lorenz, W G, Andreesen, J R, Görlsch, H, Lechner, U, **421**, 357
- **DELLA proteins**, Auxin promotes *Arabidopsis* root growth by modulating gibberellin response, *Letter to Nature*, Fu, X, Harberd, N P, **421**, 740
- ***Delta***, Involvement of *Notch* and *Delta* genes in spider segmentation, *Letter to Nature*, Stollewerk, A, Schoppmeier, M, Damen, W G M, **423**, 863
  - Delta-promoted filopodia mediate long-range lateral inhibition in *Drosophila*, *Letter to Nature*, de Joussineau, C, Soule, J, Martin, M, Anguille, C, Montcourrier, P, Alexandre, D, **426**, 555
- **dementia**, Battle of the mind, *News feature*, Check, E, **422**, 370
  - The role of presenilin cofactors in the γ-secretase complex, *Letter to Nature*, Takasugi, N, Tomita, T, Hayashi, I, Tsuruoka, M, Niimura, M, Takahashi, Y, Thinakaran, G, Iwatsubo, T, **422**, 438
  - Alzheimer's disease: Mental plaque removal, *News and views*, De Strooper, B, Woodgett, J, **423**, 392
  - GSK-3α regulates production of Alzheimer's disease amyloid-β peptides, *Letter to Nature*, Phiel, C J, Wilson, C A, Lee, V M-Y, Klein, P S, **423**, 435
  - Flame rekindled for Alzheimer's vaccine, *News in brief*, **423**, 472
  - Double trouble for neurons, *News and views*, Fortini, M E, **425**, 565
  - Neurobiology: Alzheimer's enzyme target, *News and views*, Pearson, H, **425**, 678
- **democratization**, Dealing with democracy, *Opinion*, **425**, 329
- **demography**, Disease susceptibility in California sea lions, *Brief communication*, Acevedo-Whitehouse, K, Gulland, F, Greig, D, Amos, W, **422**, 35
- **dendrimers**, Chemistry: Dendrimers set to self-destruct, *News and views*, Meijer, E W, van Genderen, M H P, **426**, 128
- **dendrites**, Cell polarity: From embryo to axon, *News and views*, Rolls, M M, Doe, C Q, **421**, 905
- **dendritic cells**, Selective imprinting of gut-homing T cells by Peyer's patch dendritic cells, *Letter to Nature*, Mora, J R, Bono, M R, Manjunath, N, Weninger, W, Cavanagh, L L, Rosemblatt, M, von Andrian, U H, **424**, 88
  - Immunology: Who turned on the T cells?, *News and views*, Heemels, M-T, **424**, 740
  - ER-phagosome fusion defines an MHC class I cross-presentation compartment in dendritic cells, *Letter to Nature*, Guermonprez, P, Saveanu, L, Kleijmeer, M, Davoust, J, van Endert, P, Amigorena, S, **425**, 397
  - Positioning of follicular dendritic cells within the spleen controls prion neuroinvasion, *Letter to Nature*, Prinz, M, Heikenwalder, M, Junt, T, Schwarz, P, Glatzel, M, Heppner, F L, Fu, Y-X, Lipp, M, Aguzzi, A, **425**, 957
- **dendritic spines**, Induction of dendritic spines by an extracellular domain of AMPA receptor subunit GluR2, *Letter to Nature*, Passafaro, M, Nakagawa, T, Sala, C, Sheng, M, **424**, 677
- **dengue fever**, Epidemiology: Conditions for dengue fever, *News in brief*, Clarke, T, **421**, 493
- **denitrification**, Nitrogen cycle: Solution to a marine mystery, *News and views*, Devol, A H, **422**, 575
  - N_2 production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica, *Letter to Nature*, Dalsgaard, T, Canfield, D E, Petersen, J, Thamdrup, B, Acuña-González, J, **422**, 606
  - Anaerobic ammonium oxidation by anammox bacteria in the Black Sea, *Letter to Nature*, Kuypers, M M M, Sliekers, A O, Lavik, G, Schmid, M, Jorgensen, B B, Kuenen, J G, Sinninghe Damste, J S, Strous, M, Jetten, M S M, **422**, 608
- **Denmark, biotechnology**, Danish biotech centre faces axe, *News*, Abbott, A, **422**, 105
- **Denmark, Danish Committees on Scientific Dishonesty**, More heat, less light on Lomberg, *Editorial*, **421**, 195
  - Ethics panel attacks environment book, *News*, Abbott, A, **421**, 201
  - Social scientists call for abolition of dishonesty committee, *News*, Abbott, A, **421**, 681
- **Denmark, National Environmental Research Institute**, Danish study hints at biodiversity boost from transgenic crops, *News in brief*, **422**, 250
- **depth perception**, Robust judgement of inter-object distance by an arthropod, *Letter to Nature*, Hemmi, J M, Zell, J, **421**, 160
- **Derailed**, Developmental biology: How neurons avoid derailment, *News and views*, Garrity, P A, **422**, 570
  - Wnt-mediated axon guidance via the *Drosophila* Derailed receptor, *Article*, Yoshikawa, S, McKinnon, R D, Kokel, M, Thomas, J B, **422**, 583
- **dermatology**, Tattoo effects may be more than skin deep, *News in brief*, **424**, 362
  - Drugs are for beauty too, *Opinion*, **424**, 981
  - In the eye of the beholder, *News feature*, Pearson, H, **424**, 990
  - Whistles blow in vain on bad practice in German research, *News*, Abbott, A, **426**, 218
- **desalination**, Climate studies hold key to future of desalination plant, *News*, Dalton, R, **422**, 4
  - Geologists call for desalination of Gaza Strip's water, *News*, Mason, B, **426**, 110
- **Descartes Prize**, Bendy screens and wobbly world win European award, *News in brief*, **426**, 376
- **desertification**, China plans clean sweep on dust storms, *News*, Cyranoski, D, **421**, 101
- **design**, Darwin and Design: Does Evolution Have a Purpose?, Ruse, M, *Book review by* Ridley, M, **423**, 686
- **designer steroids**, No dope, *News feature*, Knight, J, **426**, 114
- **detergents**, Complex fluids: Spread the word about nanofluids, *News and views*, Chaudhury, M K, **423**, 131
  - Spreading of nanofluids on solids, *Letter to Nature*, Wasan, D T, Nikolov, A D, **423**, 156
- **deubiquitination**, CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members, *Letter to Nature*, Trompouki, E, Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G, **424**, 793
  - Loss of the cylindromatosis tumour suppressor inhibits apoptosis by activating NF-κB, *Letter to Nature*, Brummelkamp, T R, Nijman, S M B, Dirac, A M G, Bernards, R, **424**, 797
- **deuterium**, Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H_2, *Letter to Nature*, Rahn, T, Eiler, J M, Boering, K A, Wennberg, P O, McCarthy, M C, Tyler, S, Schauffler, S, Donnelly, S, Atlas, E, **424**, 918
  - Astrophysics: Lost lithium, *News and views*, Baker, J, **425**, 472
- **deuterostomes**, You aren't what you eat, *News and views*, Gee, H, **424**, 885
  - *Xenoturbella* is a deuterostome that eats molluscs, *Letter to Nature*, Bourlat, S J, Nielsen, C, Lockyer, A E, Littlewood, D T J, Telford, M J, **424**, 925
- **Deutsch–Jozsa algorithm**, Implementation of the Deutsch–Jozsa algorithm on an ion-trap quantum computer, *Letter to Nature*, Guide, S, Riebe, M, Lancaster, G P T, Becher, C, Eschner, J, Häffner, H, Schmidt-Kaler, F, Chuang, I L, Blatt, R, **421**, 48
- **developing countries**, Joint European plan will tackle Africa's killer diseases, *News*, McDowell, N, **421**, 5
  - Gates ploughs millions into plan for assault on killer diseases, *News*, Butler, D, **421**, 461
  - Genes for Africa: Genetically Modified Crops in the Developing World, Thomson, J A, *Book review by* Conway, G, **421**, 478
  - Bush promises US cash for international battle against AIDS, *News in brief*, **421**, 566
  - Poor farmers warned against Internet transgenic crop deals, *News*, Dalton, R, **421**, 776
  - Biotech firms join charities in drive to help Africa's farms, *News*, Hoag, H, **422**, 246
  - Disruption to science in developing countries, *Correspondence*, Barcinski, M A, **423**, 480
  - Worldwide agricultural effort aims to help world's poor, *News in brief*, **424**, 606
  - A necessary setback for world trade, *Opinion*, **425**, 223
  - Gates steps up war on malaria with donation of $168 million, *News*, Butler, D, **425**, 331
  - In praise of Gates, *Editorial*, **425**, 435
  - Money pours in for work to boost crop yield in droughts, *News in brief*, **426**, 8
  - Governance and the loss of biodiversity, *Letter to Nature*, Smith, R J, Muir, R D J, Walpole, M J, Balmford, A, Leader-Williams, N, **426**, 67
  - African states pledge increased spending on research, *News*, Cherry, M, **426**, 109
  - A continent divided, *News feature*, Masood, E, **426**, 224
  - Developing-world health: the fightback starts here, *News feature*, Butler, D, **426**, 754
- **development rate**, Development rate: Modelling developmental time and temperature, *Brief communication*, Rombough, P, **424**, 268
- **developmental biology**, Developmental biology: A larval revelation, *News and views*, Lacalli, T, **421**, 120
  - Larval stages of a living sea lily (stalked crinoid echinoderm), *Letter to Nature*, Nakano, H, Hibino, T, Oji, T, Hara, Y, Amemiya, S, **421**, 158
  - Intracardiac fluid forces are an essential epigenetic factor for em

bryonic cardiogenesis, *Letter to Nature*, Hove, J R, Koster, R W, Forouhar, A S, Acevedo-Bolton, G, Fraser, S E, Gharib, M, **421**, 172

Developmental biology: Germ-cell attraction, *News and views*, Kunwar, P S, Lehmann, R, **421**, 226

Developmental biology: Decoding stem cells' powers, *News and views*, Pearson, H, **421**, 228

A zebrafish homologue of the chemokine receptor *Cxcr4* is a germ-cell guidance receptor, *Letter to Nature*, Knaut, H, Werz, C, Geisler, R, Busch-Nentwich, E, Dahm, R, Frohnhofer, H-G, Geiger, H, Gilmour, D, Holley, S, Hooge, J, Julich, D, Maderspacher, F, Maischein, H-M, Neumann, C, Nicolson, T, Roehl, H, Schonberger, U, Seiler, C, Sollner, C, Sonawane, M, van Bebber, F, Wehner, A, Weiler, C, Erkert, P, Habeck, H, Hagner, U, Hennen Kaps, C E, Kirchner, A, Koblizek, T, Langheinrich, U, Loeschke, C, Metzger, C, Nordin, R, Odenthal, J, Pezzuti, M, Schlombs, K, deSantana-Stamm, J, Trowe, T, Vacun, G, Walderich, B, Walker, A, Weiler, C, Nusslein-Volhard, C, **421**, 279

Developmental biology: Embryos gain foothold in the womb, *News and views*, Pearson, H, **421**, 331

Developmental biology: A twist in a mouse tale, *News and views*, Dyson, N, **421**, 903

Extra-embryonic function of Rb is essential for embryonic development and viability, *Letter to Nature*, Wu, L, de Bruin, A, Saavedra, H I, Starovic, M, Trimboll, A, Yang, Y, Opavska, J, Wilson, P, Thompson, J C, Ostrowski, M C, Rosol, T J, Woollett, L A, Weinstein, M, Cross, J C, Robinson, M L, Leone, G, **421**, 942

Developmental biology: Guidance molecule goes global, *News and views*, Schuldt, A, **422**, 125

Developmental biology: A hairy situation, *News and views*, Barrandon, Y, **422**, 272

Developmental biology: Tools for single-cell analysis, *News and views*, Pilcher, H R, **422**, 275

Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **422**, 317

Developmental biology: How neurons avoid derailment, *News and views*, Garrity, P A, **422**, 570

Wnt-mediated axon guidance via the *Drosophila* Derailed receptor, *Article*, Yoshikawa, S, McKinnon, R D, Kokel, M, Thomas, J B, **422**, 583

Developmental biology: The trouble with the sex body, *News and views*, Lincoln, T, **422**, 677

Developmental biology: Fish in pinstripe suits, *News and views*, Heemels, M-T, **424**, 143

Evolutionary biology: Body plans and simple brains, *News and views*, Lacalli, T, **424**, 263

Development rate: Modelling developmental time and temperature, *Brief communication*, Rombough, P, **424**, 268

A tale of tails, *News and views*, Niehrs, C, **424**, 375

Developmental biology: Boundary lines, *News and views*, Blair, S S, **424**, 379

The molecular nature of the zebrafish tail organizer, *Letter to Nature*, Agathon, A, Thisse, C, Thisse, B, **424**, 448

WAVE2 is required for directed cell migration and cardiovascular development, *Letter to Nature*, Yamazaki, D, Suetsugu, S, Miki, H, Kataoka, Y, Nishikawa, S-I, Fujiwara, T, Yoshida, N, Takenawa, T, **424**, 452

Developmental biology: How to turn inside out, *News and views*, Schmitt, R, Sumper, M, **424**, 499

Developmental biology: Hotspots for evolution, *News and views*, Richardson, M K, Brakefield, P M, **424**, 894

Developmental biology: Control stems from microRNAs, *News and views*, Pearson, H, **424**, 898

Regulatory evolution of *shavenbaby/ovo* underlies multiple cases of morphological parallelism, *Letter to Nature*, Sucena, E, Delon, I, Jones, I, Payre, F, Stern, D L, **424**, 935

Erratum: Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **424**, 974

Developmental biology: Creating diversity, *News and views*, Heemels, M-T, **424**, 1011

Developmental biology: A tadpole's tale, *News and views*, Tromans, A, **425**, 250

Developmental biology: Protein destruction from egg to embryo, *News and views*, Pilcher, H R, **425**, 364

Developmental biology: Twisting the body into shape, *News and views*, Scott, I C, Stainier, D Y R, **425**, 461

Developmental biology: Partners united, *News and views*, Freeman, M, **425**, 468

Developmental biology: Clocking the birth of neurons, *News and views*, Harris, W A, **425**, 568

Regulation of neuroblast competence in *Drosophila*, *Letter to Nature*, Pearson, B J, Doe, C Q, **425**, 624

Sophisticated sperm allocation in male fowl, *Letter to Nature*, Pizzari, T, Cornwallis, C K, Levile, H, Jakobsson, S, Birkhead, T R, **426**, 70

Developmental biology: Gender benders, *News and views*, Koopman, P, **426**, 241

Testis determination requires insulin receptor family function in mice, *Letter to Nature*, Nef, S, Verma-Kuvari, S, Merenmies, J, Vassalli, J-D, Efstratiadis, A, Accili, D, Parada, L F, **426**, 291

Cell biology: Thanks for the memory, *News and views*, Sible, J C, **426**, 392

Developmental biology: Serpin takes its toll, *News and views*, Heemels, M-T, **426**, 514

A self-organizing system of repressor gradients establishes segmental complexity in *Drosophila*, *Letter to Nature*, Clyde, D E, Corado, M S G, Wu, X, Pare, A, Papatsenko, D, Small, S, **426**, 849

developmental plasticity, Developmental Plasticity and Evolution, West-Eberhard, M J, *Book review by* de Jong, G, Crozier, R H, **424**, 16

developmental predisposition, Cell biology: Developmental predisposition to cancer, *Brief communication*, Frank, S A, Nowak, M A, **422**, 494

Devon Great Consols, The arsenic green, *Science in culture*, Meharg, A, **423**, 688

Devonian era, Palaeontology: Preserved organs of Devonian harvestmen, *Brief communication*, Dunlop, J A, Anderson, L I, Kerp, H, Hass, H, **425**, 916

A larval Devonian lungfish, *Letter to Nature*, Thomson, K S, Sutton, M, Thomas, B, **426**, 833

diabetes, Free fatty acids regulate insulin secretion from pancreatic β cells through GRP40, *Letter to Nature*, Itoh, Y, Kawamata, Y, Harada, M, Kobayashi, M, Fujii, R, Fukusumi, S, Ogi, K, Hosoya, M, Tanaka, Y, Uejima, H, Tanaka, H, Maruyama, M, Satoh, R, Okubo, S, Kizawa, H, Komatsu, H, Matsumura, F, Noguchi, Y, Shinohara, T, Hinuma, S, Fujisawa, Y, Fujino, M, **422**, 173

Association of the T-cell regulatory gene *CTLA4* with susceptibility to autoimmune disease, *Article*, Ueda, H, Howson, J M M, Esposito, L, Heward, J, Snook, H, Chamberlain, G, Rainbow, D B, Hunter, K M D, Smith, A N, Di Genova, G, Herr, M H, Dahlman, I, Payne, F, Smyth, D, Lowe, C, Twells, R C J, Howlett, S, Healy, B, Nutland, S, Rance, H E, Everett, V, Smink, L J, Lam, A C, Cordell, H J, Walker, N M, Bordin, C, Hulme, J, Motzo, C, Cucca, F, Hess, J F, Metzker, M L, Rogers, J, Gregory, S, Allahabadia, A, Nithiyananthan, R, Tuomilehto-Wolf, E, Tuomilehto, J, Bingley, P, Gillespie, K M, Undlien, D E, Ronningen, K S, Ġuja, C, Ionescu-Tîrgovişte, C, Savage, D A, Maxwell, A P, Carson, D J, Patterson, C C, Franklyn, J A, Clayton, D G, Peterson, L B, Wicker, L S, Todd, J A, Gough, S C L, **423**, 506

Insulin-regulated hepatic gluconeogenesis through FOXO1-PGC-1α interaction, *Letter to Nature*, Puigserver, P, Rhee, J, Donovan, J, Walkey, C J, Yoon, J C, Oriente, F, Kitamura, Y, Altomonte, J, Dong, H, Accili, D, Spiegelman, B M, **423**, 550

The double puzzle of diabetes, *News and views feature*, Diamond, J, **423**, 599

Cloning of adiponectin receptors that mediate antidiabetic metabolic effects, *Letter to Nature*, Yamauchi, T, Kamon, J, Ito, Y, Tsuchida, A, Yokomizo, T, Kita, S, Sugiyama, T, Miyagishi, M, Hara, K, Tsunoda, M, Murakami, K, Ohteki, T, Uchida, S, Takekawa, S, Waki, H, Tsuno, N H, Shibata, Y, Terauchi, Y, Froguel, P, Tobe, K, Koyasu, S, Taira, K, Kitamura, T, Shimizu, T, Nagal, R, Kadowaki, T, **423**, 762

Diabetes: Molecular suspect fingered, *News and views*, Thomas, C, **424**, 265

diagnostic tests, Diagnostic drive aims to combat killer diseases, *News in brief*, **423**, 472

diamond, Materials: Ultrahard polycrystalline diamond from graphite, *Brief communication*, Irifune, T, Kurio, A, Sakamoto, S, Inoue, T, Sumiya, H, **421**, 599

Earth science: Subduction the hard way, *News and views*, Wright, A, **423**, 24

Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68

Materials science: The road to diamond wafers, *News and views*, Lee, S T, Lifshitz, Y, **424**, 500

Materials chemistry: Diamonds from dry ice, *News and views*, Ball, P, **424**, 740

diapedesis, Targeted recycling of PECAM from endothelial surface-connected compartments during diapedesis, *Letter to Nature*, Mamdouh, Z, Chen, X, Pierini, L M, Maxfield, F R, Muller, W A, **421**, 748

diatomic molecules, Paired-up helium atoms make it big, *News*, Brumfiel, G, **424**, 865

diatoms, Architecture and material properties of diatom shells provide effective mechanical protection, *Letter to Nature*, Hamm, C E, Merkel, R, Springer, O, Jurkojc, P, Maier, C, Prechtel, K, Smetacek, V, **421**, 841

dibenzofurans, Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium, *Letter to Nature*, Bunge, M, Adrian, L, Kraus, A, Opel, M, Lorenz, W G, Andreesen, J R, Görlsch, H, Lechner, U, **421**, 357

Dicer proteins, Structure and conserved RNA binding of the PAZ domain, *Letter to Nature*, Yan, K S, Yan, S, Farooq, A, Han, A, Zeng, L, Zhou, M-M, **426**, 469

Dictyostelium discoideum, Cell motility: Making streams, *News and views*, Kessin, R H, **422**, 481

Cell biology: Join the crowd, *News and views*, Ellis, R J, Minton, A P, **425**, 27

Diels-Alder reaction, Insight into a natural Diels-Alder reaction from the structure of macrophomate synthase, *Letter to Nature*, Ose, T, Watanabe, K, Mie, T, Honma, M, Watanabe, H, Yao, M, Oikawa, H, Tanaka, I, **422**, 185

Diels-Alderases, Insight into a natural Diels-Alder reaction from the structure of macrophomate synthase, *Letter to Nature*, Ose, T, Watanabe, K, Mie, T, Honma, M, Watanabe, H, Yao, M, Oikawa, H, Tanaka, I, **422**, 185

diet, Immunology: Fast and feel good?, *News and views*, Kuchroo, V K, Nicholson, L B, **422**, 27

RNA interference: Cereal adultery, *News and views*, Surridge, C, **423**, 390

Archaeology: Sharp shift in diet at onset of Neolithic, *Brief communication*, Richards, M P, Schulting, R J, Hedges, R E M, **425**, 366

Coronary Artery Disease: Genes, Drugs, and the Agricultural Connection, Faergeman, O, *Book review by* Nestle, M, **425**, 902

Consumers warned that time is not yet ripe for nutrition profiling, *News*, Check, E, **426**, 107

Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Schroeter, H, Holt, R R, Orozco, T J, Schmitz, H H, Keen, C L, **426**, 787

Plasma antioxidants: Health benefits of eating chocolate?, *Brief communication*, Halliwell, B, **426**, 787

Reply: Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Serafini, M, Crozier, A, **426**, 788

diffraction, Crystal: ever-evolving and expanding in scope, *Correspondence*, Seitz, R, **423**, 917

Digital Object Identifier System, Multitude of reference styles delays publication, *Correspondence*, Leslie Jr, D M, Hamilton, M J, **424**, 127

Open-source answer to bibliography problem, *Correspondence*, Wendl, M C, Dooling, D J, **424**, 995

digital organisms, The evolutionary origin of complex features, *Article*, Lenski, R E, Ofria, C, Pennock, R T, Adami, C, **423**, 139

dimers, Synthetic chemistry: A perfect fit, *News and views*, Ramamurthy, V, **423**, 394

dinosaurs, Dinosaurs take to the air, *News and views*, Prum, R O, **421**, 323

Four-winged dinosaurs from China, *Article*, Xu, X, Zhou, Z, Wang, X, Kuang, X, Zhang, F, Du, X, **421**, 335

Cannibalism in the Madagascan dinosaur *Majungatholus atopus*, *Letter to Nature*, Rogers, R R, Krause, D W, Curry Rogers, K, **422**, 515

Hot tempers, hard core, *News feature*, Dalton, R, **425**, 13

Meteorite impacts: Dinosaurs were not roasted, *News and views*, Ball, P, **426**, 618

dioxins, Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium, *Letter to Nature*, Bunge, M, Adrian, L, Kraus, A, Opel, M, Lorenz, W G, Andreesen, J R, Görlsch, H, Lechner, U, **421**, 357

A pre-industrial source of dioxins and furans, *Brief communication*, Meharg, A A, Killham, K, **421**, 909

Flight records reveal full extent of Agent Orange contamination, *News*, Butler, D, **422**, 649

The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681

Oestrogen receptor hijacked, *News and views*, Brosens, J J, Parker, M G, **423**, 487

Modulation of oestrogen receptor signalling by association with the activated dioxin receptor, *Letter to Nature*, Ohtake, F, Takeyama, K-I, Matsumoto, T, Kitagawa, H, Yamamoto, Y, Nohara, K, Tohyama, C, Krust, A, Mimura, J, Chambon, P, Yanagisawa, J, Fujii-Kuriyama, Y, Kato, S, **423**, 545

diplomacy, Knowledge and Diplomacy: Science Advice in the United Nations System, Committee for Survey and Analysis of Science Advice on Sustainable Development to International Organizations, Development, Security, and Cooperation, National Research Council, *Book review by* Masood, E, **422**, 471

dipolar width, Measuring dipolar width across liquid-liquid interfaces with 'molecular rulers', *Letter to Nature*, Steel, W H, Walker, R A, **424**, 296

disaster response, Cities' response to attack hampered by unknown airflow, *News in brief*, **423**, 676

discrimination, Oxford professor accused of discrimination over e-mail, *News*, Watzman, H, **424**, 7

Oxford don penalized for outburst at Israeli, *News in brief*, **424**, 120

disease, Feature: Nature, nurture and human disease, *Feature*, Chakravarti, A, Little, P, **421**, 412

Gates ploughs millions into plan for assault on killer diseases, *News*, Butler, D, **421**, 461

Disease proteomics, *Insight review article*, Hanash, S, **422**, 226

Ecological interference between fatal diseases, *Letter to Nature*, Rohani, P, Green, C J, Mantilla-Beniers, H B, Grenfell, B T, **422**, 865

The Deadly Truth: A History of Disease in America, Grob, G, *Book review by* Bynum, W F, **423**, 19

disease control, Combating AIDS: Communication Strategies in Action, Singhal, A, Rogers, E M, *Book review by* Priya, R, **423**, 685

Living with the AIDS Virus: The Epidemic and the Response in India, Panda, S, Chatterjee, A, Abdul-Quader, A S, *Book review by* Priya, R, **423**, 685

Raiding the medicine cabinet, *News feature*, Butler, D, **424**, 10

We have been warned, *Opinion*, **424**, 113

Was the fuss overblown?, *News feature*, Pearson, H, **424**, 121

Is the outbreak finally over?, *News feature*, Clarke, T, **424**, 122

Are we prepared for the next viral threat?, *News feature*, Abbott, A, **424**, 123

How and who does SARS kill?, *News feature*, Knight, J, **424**, 123

Where did the SARS virus come from?, *News feature*, Cyranoski, D, **424**, 124

Why China?, *News feature*, Cyranoski, D, **424**, 124

Are drugs for SARS on the horizon?, *News feature*, Abbott, A, **424**, 125

Is the SARS virus mutating?, *News feature*, Knight, J, **424**, 125

What about a vaccine?, *News feature*, Clarke, T, **424**, 126

Fast vaccine offers hope in battle with Ebola, *News*, Clarke, T, Knight, J, **424**, 602

WHO prepares for final push to rid the world of polio, *News*, Butler, D, **424**, 604

Accelerated vaccination for Ebola virus haemorrhagic fever in non-human primates, *Letter to Nature*, Sullivan, N J, Geisbert, T W, Geisbert, J B, Xu, L, Yang, Z-Y, Roederer, M, Koup, R A, Jahrling, P B, Nabel, G J, **424**, 681

dislocations, Subatomic movements of a domain wall in the Peierls potential, *Letter to Nature*, Novoselov, K S, Geim, A K, Dubonos, S V, Hill, E W, Grigorieva, I V, **426**, 812

dispersants, How to clean a beach, *News feature*, Whitfield, J, **422**, 464

dissolved organic carbon, Self-organization of dissolved organic matter to micelle-like microparticles in river water, *Letter to Nature*, Kerner, M, Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A, **422**, 150

diversity, Ecology: Roots of diversity, *News and views*, Moore, P D, **424**, 26

DLAD, Nuclear cataract caused by a lack of DNA degradation in the mouse eye lens, *Letter to Nature*, Nishimoto, S, Kawane, K, Watanabe-Fukunaga, R, Fukuyama, H, Ohsawa, Y, Uchiyama, Y, Hashida, N, Ohguro, N, Tano, Y, Morimoto, T, Fukuda, Y, Nagata, S, **424**, 1071

DNA, 1903 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **421**, 15

  Double helix gets minty fresh image, *News in brief*, **421**, 103

  Molecular systematics: Counting angels with DNA, *News and views*, Blaxter, M, **421**, 122

  An active DNA transposon family in rice, *Letter to Nature*, Jiang, N, Bao, Z, Zhang, X, Hirochika, H, Eddy, S R, McCouch, S R, Wessler, S R, **421**, 163

  The plant MITE *mPing* is mobilized in anther culture, *Letter to Nature*, Kikuchi, K, Terauchi, K, Wada, M, Hirano, H-Y, **421**, 167

  Mobilization of a transposon in the rice genome, *Letter to Nature*, Nakazaki, T, Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T, **421**, 170

  DNA discrepancy, *Correspondence*, May, A, **421**, 210

  Watson and DNA: Making a Scientific Revolution, McElheny, V K, *Book review by* Gilbert, W, **421**, 315

  Feature: Discovering genes are made of DNA, *Feature*, McCarty, M, **421**, 406

  Feature: DNA in a material world, *Feature*, Seeman, N C, **421**, 427

  Fury at plan to split historic biology archive, *News*, Dalton, R, **421**, 564

  Auction of DNA archive cancelled, *News*, Dalton, R, **422**, 102

  The key to signalling, *Concepts*, Kushiro, T, Nambara, E, McCourt, P, **422**, 122

  Time will tell, *Science in culture*, Kemp, M, **422**, 380

  Human genome finished in time for DNA's golden jubilee, *News in brief*, **422**, 654

  Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803

  DNA from Alberts to Zinder, *Commentary*, Sherwood, P, **422**, 806

  DNA: The secret of life, Watson, J D, Berry, A, Knopf, A A, *Book review by* Singer, M, **422**, 809

  Art after DNA, *Science in culture*, Gamwell, L, **422**, 817

  DNA triplet repeats mediate heterochromatin-protein-1-sensitive variegated gene silencing, *Letter to Nature*, Saveliev, A, Everett, C, Sharpe, T, Webster, Z, Festenstein, R, **422**, 909

  The structure of DNA in the nucleosome core, *Article*, Richmond, T J, Davey, C A, **423**, 145

  Deacon's nucleic acid, *Science in culture*, Kemp, M, **423**, 483

  Microfluidics: DNA microarrays get the shakers, *News and views*, Ball, P, **423**, 496

  DNA discoveries through crystallography, *Correspondence*, Subirana, J A, **423**, 683

  Pathogen-induced systemic plant signal triggers DNA rearrangements, *Letter to Nature*, Kovalchuk, I, Kovalchuk, O, Kalck, V, Boyko, V, Filkowski, J, Heinlein, M, Hohn, B, **423**, 760

  Dali and the double helix, *Correspondence*, Guardiola, E, Banos, J-E, **423**, 917

  Telomeres: Taking the measure, *News and views*, Lundblad, V, **423**, 926

  POT1 as a terminal transducer of TRF1 telomere length control, *Letter to Nature*, Loayza, D, de Lange, T, **423**, 1013

  Processive AID-catalysed cytosine deamination on single-stranded DNA simulates somatic hypermutation, *Letter to Nature*, Pham, P, Bransteitter, R, Petruska, J, Goodman, M F, **424**, 103

  DNA-chip firm backs down over upgrade, *News*, Whitfield, J, **424**, 119

  History and science united to vindicate Perutz, *Correspondence*, Paterlini, M, **424**, 127

  Were Cro-Magnons too like us for DNA to tell?, *Correspondence*, Barbujani, G, Bertorelle, G, **424**, 127

  The DNA sequence of human chromosome 7, *Article*, Hillier, L W, Fulton, R S, Fulton, L A *et al.* (See footnote 2 on p. 59 for full author list), **424**, 157

  Structural transitions and elasticity from torque measurements on DNA, *Letter to Nature*, Bryant, Z, Stone, M D, Gore, J, Smith, S B, Cozzarelli, N R, Bustamante, C, **424**, 338

  Vital statistics, *News feature*, Tilstone, C, **424**, 610

  Cancer: Protective packaging for DNA, *News and views*, Downs, J A, Jackson, S P, **424**, 732

  Who said 'helix'?, *Commentary*, Fuller, W, **424**, 876

  Inspiring Science: Jim Watson and the Age of DNA, Inglis, J, Sambrook, J, Witkowski, J, *Book review by* Olby, R, **426**, 229

  Celebrating 50 years of the cell cycle, *Correspondence*, Dubrovsky, J G, Ivanov, V B, **426**, 759

DNA, complementary, Japanese lab turns the page on cDNA delivery, *News in brief*, **422**, 794

DNA, condensed, Molecular biology: Dynamics of condensed DNA, *News and views*, Heinrichs, A, **421**, 597

DNA, junk, Geneticists question fees for use of patented 'junk' DNA, *News*, Dennis, C, **423**, 105

  Row over junk DNA patents comes home to Australia, *News in brief*, **424**, 480

DNA, mitochondrial, Error reports threaten to unravel databases of mitochondrial DNA, *News*, Dennis, C, **421**, 773

  Rapid change in mouse mitochondrial DNA, *Brief communication*, Pergams, O R W, Barnes, W M, Nyberg, D, **423**, 397

  Anthropologists cast doubt on human DNA evidence, *News*, Abbott, A, **423**, 468

DNA, patents, Row over junk DNA patents comes home to Australia, *News in brief*, **424**, 480

DNA, self-recognition, DNA self-recognition in the structure of Pot1 bound to telomeric single-stranded DNA, *Letter to Nature*, Lei, M, Podeli, E R, Baumann, P, Cech, T R, **426**, 198

DNA, selfish, Genomics: DNA double agent, *News and views*, Pilcher, H R, **425**, 143

DNA amplification, Microfluidics: DNA amplification moves on, *News and views*, deMello, A J, **422** 28

DNA barcodes, Molecular systematics: Counting angels with DNA, *News and views*, Blaxter, M, **421**, 122

DNA binding, Crystal structure of a zinc-finger-RNA complex reveals two modes of molecular recognition, *Letter to Nature*, Lu, D, Searles, A, Klug, A, **426**, 96

DNA chips, *See* microarrays

DNA damage, Feature: DNA damage and repair, *Feature*, Friedberg, E C, **421**, 436

  DNA damage activates ATM through intermolecular autophosphorylation, *Article*, Bakkenist, C J, Kastan, M B, **421**, 499

  MDC1 is required for the intra-S-phase DNA damage checkpoint, *Letter to Nature*, Goldberg, M, Stucki, M, Falck, J, D'Amours, D, Rahman, D, Pappin, D, Bartek, J, Jackson, S P, **421**, 952

  MDC1 is coupled to activated CHK2 in mammalian DNA damage response pathways, *Letter to Nature*, Lou, Z, Minter-Dykhouse, K, Wu, X, Chen, J, **421**, 957

  MDC1 is a mediator of the mammalian DNA damage checkpoint, *Letter to Nature*, Stewart, G S, Wang, B, Bignell, C R, Taylor, A M R, Elledge, S J, **421**, 961

  Cell biology: Arrested replication, *News and views*, Eggleston, A K, **426**, 28

  Degradation of Cdc25A by β-TrCP during S phase and in response to DNA damage, *Letter to Nature*, Busino, L, Donzelli, M, Chiesa, M, Guardavaccaro, D, Ganoth, D, Dorrello, N V, Hershko, A, Pagano, M, Draetta, G F, **426**, 87

  A DNA damage checkpoint response in telomere-initiated senescence, *Letter to Nature*, d'Adda di Fagagna, F, Reaper, P M, Clay-Farrace, L, Fiegler, H, Carr, P, von Zglinicki, T, Saretzki, G, Carter, N P, Jackson, S P, **426**, 194

DNA elasticity, Feature: Ten years of tension: single-molecule DNA mechanics, *Feature*, Bustamante, C, Bryant, Z, Smith, S B, **421**, 423

DNA helicase, DNA helicase Srs2 disrupts the Rad51 presynaptic filament, *Letter to Nature*, Krejci, L, Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P, **423**, 305

  The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments, *Letter to Nature*, Veaute, X, Jeusset, J, Soustelle, C, Kowalczykowski, S C, Le Cam, E, Fabre, F, **423**, 309

  RecBCD enzyme is a DNA helicase with fast and slow motors of opposite polarity, *Letter to Nature*, Taylor, A F, Smith, G R, **423**, 889

  RecBCD enzyme is a bipolar DNA helicase, *Letter to Nature*, Dillingham, M S, Spies, M, Kowalczykowski, S C, **423**, 893

  The Bloom's syndrome helicase suppresses crossing over during homologous recombination, *Letter to Nature*, Wu, L, Hickson, I D, **426**, 870

DNA packaging, Feature: Portrait of a molecule, *Feature*, Ball, P, **421**, 421

  Feature: Ten years of tension: single-molecule DNA mechanics, *Feature*, Bustamante, C, Bryant, Z, Smith, S B, **421**, 423

  Feature: Controlling the double helix, *Feature*, Felsenfeld, G, Groudine, M, **421**, 448

DNA polymerase, Replication of a *cis-syn* thymine dimer at atomic resolution, *Letter to Nature*, Ling, H, Boudsocq, F, Plosky, B S, Woodgate, R, Yang, W, **424**, 1083

DNA recombination, Feature: DNA replication and recombination, *Feature*, Alberts, B, **421**, 431

  Transcription-targeted DNA deamination by the AID antibody diversification enzyme, *Letter to Nature*, Chaudhuri, J, Tian, M, Khuong, C, Chua, K, Pinaud, E, Alt, F W, **422**, 726

DNA repair, Feature: DNA damage and repair, *Feature*, Friedberg, E C, **421**, 436

  DNA repair: Damage alert, *News and views*, Bartek, J, Lukas, J, **421**, 486

  Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA, *Letter to Nature*, Aas, P A, Otterlei, M, Falnes, P O, Vågbø, C B, Skorpen, F, Akbari, M, Sundheim, O, Bjørås, M, Slupphaug, G, Seeberg, E, Krokan, H E, **421**, 859

DNA replication, Feature: DNA in a material world, *Feature*, Seeman, N C, **421**, 427

  Feature: DNA replication and recombination, *Feature*, Alberts, B, **421**, 431

  Biophysics: Unzipping your genes, *News and views*, Ball, P, **421**, 804

  CUL-4 ubiquitin ligase maintains genome stability by restraining DNA-replication licensing, *Letter to Nature*, Zhong, W, Feng, H, Santiago, F E, Kipreos, E T, **423**, 885

DNA sequencing, Feature: The digital code of DNA, *Feature*, Hood, L, Galas, D, **421**, 444

  The DNA sequence and analysis of human chromosome 14, *Article*, Heilig, R, Eckenberg, R, Petit, J-L *et al.* (See footnote 1 on p. 59 for full author list), **421**, 601

  Nuclear DNA sequences detect species limits in ancient moa, *Letter to Nature*, Huynen, L, Millar, C D, Scofield, R P, Lambert, D M, **425**, 175

  DNA lab welcomes Dalai Lama to Tibetan science community, *News*, Check, E, **425**, 335

  Feature: The International HapMap Project, *Feature*, The International HapMap Consortium, **426**, 789

  See also **Gene sequencing**

DNA structure *see* double helix

DNA testing, Dig pinpoints scene of Donner cannibal legend, *News in brief*, **424**, 988

DNA transcription, Feature: Ten years of tension: single-molecule DNA mechanics, *Feature*, Bustamante, C, Bryant, Z, Smith, S B, **421**, 423

DNA vaccines, Feature: The double helix and immunology, *Feature*, Nossal, G J V, **421**, 440

Dock180, RhoG activates Rac1 by direct interaction with the Dock180-binding protein Elmo, *Letter to Nature*, Katoh, H, Negishi, M, **424**, 461

dodecahedron, Dodecahedral space topology as an explanation for weak wide-angle temperature correlations in the cosmic microwave background, *Letter to Nature*, Luminet, J-P, Weeks, J R, Riazuelo, A, Lehoucq, R, Uzan, J-P, **425**, 593

  Timaeus's insight on the shape of the Universe, *Correspondence*, Giomini, C, **425**, 899

dodo, Expiry dates, *News and views*, Pimm, S, **426**, 235

  Flightless birds: When did the dodo become extinct?, *Brief communication*, Roberts, D L, Solow, A R, **426**, 245

dogs, Poorly pets to provide early warning in war on bioterror, *News in brief*, **421**, 882

  Animal behaviour: A dog's dinner, *News and views*, Heemels, M-T, **423**, 134

dogs, genome, Venter's dog genome sets tongues wagging, *News in brief*, **425**, 442

Doliodus problematicus, The oldest articulated chondrichthyan from the Early Devonian period, *Letter to Nature*, Miller, R F, Cloutier, R, Turner, S, **425**, 501

Dolly the sheep, Dolly's death leaves researchers woolly on the clone ageing issue, *News*, Giles, J, Knight, J, **421**, 776

  Stuffed Dolly not starved of attention, *News in brief*, **422**, 654

  Dolly firm in trouble after transgenic milk fails to flow, *News*, Hogan, J, **423**, 907

dolphins, Echolocation: Volume control, *News and views*, Tromas, A, **423**, 815

  Automatic gain control in the echolocation system of dolphins, *Letter to Nature*, Au, W W L, Benoit-Bird, K J, **423**, 861

  Bottlenose dolphins perceive object features through echolocation, *Letter to Nature*, Harley, H E, Putman, E A, Roitblat, H L, **424**, 667

domain walls, Subatomic movements of a domain wall in the Peierls potential, *Letter to Nature*, Novoselov, K S, Geim, A K, Dubonos, S V, Hill, E W, Grigorieva, I V, **426**, 812

domestic burning, A pre-industrial source of dioxins and furans, *Brief communication*, Meharg, A A, Killham, K, **421**, 909

domestication, Animal behaviour: A dog's dinner, *News and views*, Heemels, M-T, **423**, 134

Donner party, Dig pinpoints scene of Donner cannibal legend, *News in brief*, **424**, 988

dopamine, Neurobiology: Dopamine as chicken and egg, *News and views*, Self, D, **422**, 573

  Subsecond dopamine release promotes cocaine seeking, *Letter to Nature*, Phillips, P E M, Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M, **422**, 614

  Erratum: Subsecond dopamine release promotes cocaine seeking, *Letter to Nature*, Phillips, P E M, Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M, **423**, 461

doping, High-temperature superconductors: Universal nodal Fermi velocity, *Brief communication*, Zhou, X J, Yoshida, T, Lanzara, A, Bogdanov, P V, Kellar, S A, Shen, K M, Yang, W L, Ronning, F, Sasagawa, T, Kakashita, T, Noda, T, Eisaki, H, Uchida, S, Lin, C T, Zhou, F, Xiong, W, Ti, W X, Zhao, Z X, Fujimori, A, Hussain, Z, Shen, Z-X, **423**, 398

dosimetry, Bomb dosimetry unlikely to change risk estimates, *Correspondence*, Mossman, K L, **425**, 237

double helix, Double helix gets minty fresh image, *News in brief*, **421**, 103

  Beyond the double helix, *News feature*, Pearson, H **421**, 310

  Watson and DNA: Making a Scientific Revolution, McElheny, V K, *Book review by* Gilbert, W, **421**, 315

  The eternal molecule, *Feature*, Dennis, C, Campbell, P, **421**, 396

  Feature: Quiet debut for the double helix, *Feature*, Olby, R, **421**, 402

  The double helix and the 'wronged heroine', *Feature*, Maddox, B, **421**, 407

  Feature: The double helix in clinical practice, *Feature*, Bell, J I, **421**, 414

  Feature: The *Mona Lisa* of modern science, *Feature*, Kemp, M, **421**, 416

  Feature: Portrait of a molecule, *Feature*, Ball, P, **421**, 421

  Feature: The double helix and immunology, *Feature*, Nossal, G J V, **421**, 440

  Feature: Controlling the double helix, *Feature*, Felsenfeld, G, Groudine, M, **421**, 448

  Fury at plan to split historic biology archive, *News*, Dalton, R, **421**, 564

  Auction of DNA archive cancelled, *News*, Dalton, R, **422**, 102

  Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803

DNA from Alberts to Zinder, *Commentary*, Sherwood, P, **422**, 806
DNA: The secret of life, Watson, J D, Berry, A, Knopf, A A, *Book review by* Singer, M, **422**, 809
DNA discoveries through crystallography, *Correspondence*, Subirana, J A, **423**, 683
Dali and the double helix, *Correspondence*, Guardiola, E, Banos, J-E, **423**, 917
Who said 'helix'?, *Commentary*, Fuller, W, **424**, 876
Despite Franklin's work, Wilkins earned his Nobel, *Correspondence*, Zallen, D T, **425**, 15
The Third Man of the Double Helix: The Autobiography of Maurice Wilkins, Wilkins, M, *Book review by* Gosling, R, **425**, 901
Inspiring Science: Jim Watson and the Age of DNA, Inglis, J, Sambrook, J, Witkowski, J, *Book review by* Olby, R, **426**, 229
See also **DNA**

Double Star satellite, US on sidelines as China prepares for satellite launch, *News*, Reichhardt, T, **426**, 375

drag coefficient, Reduced drag coefficient for high wind speeds in tropical cyclones, *Article*, Powell, M D, Vickery, P J, Reinhold, T A, **422**, 279

dragonflies, Insect behaviour: Motion camouflage in dragonflies, *Brief communication*, Mizutani, A, Chahl, J S, Srinivasan, M V, **423**, 604

Drazen, Jeffrey, Open-access row leads paper to shed authors, *News*, Butler, D, **425**, 334

droplets, Wetting properties: When larger drops evaporate faster, *Brief communication*, Leizerson, I, Lipson, S G, Lyushnin, A V, **422**, 395
On-chip manipulation of free droplets, *Brief communication*, Velev, O D, Prevo, B G, Bhatt, K H, **426**, 515

Drosha, The nuclear RNase III Drosha initiates microRNA processing, *Letter to Nature*, Lee, Y, Ahn, C, Han, J, Choi, H, Kim, J, Yim, J, Lee, J, Provost, P, Radmark, O, Kim, S, Kim, V N, **425**, 415

Drosophila, A role for *Drosophila* LKB1 in anterior-posterior axis formation and epithelial polarity, *Letter to Nature*, Martin, S G, St Johnston, D, **421**, 379
Fidelity in planar cell polarity signalling, *Letter to Nature*, Ma, D, Yang, C-h, McNeill, H, Simon, M A, Axelrod, J D, **421**, 543
The contribution of *Shaker* K$^+$ channels to the information capacity of *Drosophila* photoreceptors, *Letter to Nature*, Niven, J E, Vähäsöyrinki, M, Kauranen, M, Hardie, R C, Juusola, M, Weckström, M, **421**, 630
Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **422**, 317
Developmental biology: How neurons avoid derailment, *News and views*, Garrity, P A, **422**, 570
Wnt-mediated axon guidance via the *Drosophila* Derailed receptor, *Article*, Yoshikawa, S, McKinnon, R D, Kokel, M, Thomas, J B, **422**, 583
Adaptation of core mechanisms to generate cell polarity, *Insight review article*, Nelson, W J, **422**, 766
Chibby, a nuclear β-catenin-associated antagonist of the Wnt/Wingless pathway, *Letter to Nature*, Takemaru, K-I, Yamaguchi, S, Lee, Y S, Zhang, Y, Carthew, R W, Moon, R T, **422**, 905
Identification of *Vangl2* and *Scrb1* as planar polarity genes in mammals, *Letter to Nature*, Montcouquiol, M, Rachel, R A, Lanford, P J, Copeland, N G, Jenkins, N A, Kelley, M W, **423**, 173
Cell division: Genome maintenance, *News and views*, Raff, J W, **423**, 493
Mitochondrial membrane remodelling regulated by a conserved rhomboid protease, *Letter to Nature*, McQuibban, G A, Saurya, S, Freeman, M, **423**, 537
Evolutionary biology: Genes to make a new species, *News and views*, Noor, M A F, **423**, 699
Adaptive evolution drives divergence of a hybrid inviability gene between two species of *Drosophila*, *Article*, Presgraves, D C, Balagopalan, L, Abmayr, S M, Orr, H A, **423**, 715
Ion channels: Opposite thermosensor in fruitfly and mouse, *Brief communication*, Viswanath, V, Story, G M, Peier, A M, Petrus, M J, Lee, V M, Hwang, S W, Patapoutian, A, Jegla, T, **423**, 822
Cell biology: Flies get rhythm, *News and views*, Pilcher, H R, **423**, 935
Chromosome cohesion is regulated by a clock gene paralogue TIM-1, *Letter to Nature*, Chan, R C, Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J, **423**, 1002
A TRPV family ion channel required for hearing in *Drosophila*, *Letter to Nature*, Kim, J, Chung, Y D, Park, D-y, Choi, S, Shin, D W, Soh, H, Lee, H W, Son, W, Yim, J, Park, C-S, Kernan, M J, Kim, C, **424**, 81
Developmental biology: Boundary lines, *News and views*, Blair, S S, **424**, 379
Developmental biology: Hotspots for evolution, *News and views*, Richardson, M K, Brakefield, P M, **424**, 894
Genetic mechanisms and constraints governing the evolution of correlated traits in drosophilid flies, *Letter to Nature*, Gompel, N, Carroll, S B, **424**, 931
Regulatory evolution of *shavenbaby/ovo* underlies multiple cases of morphological parallelism, *Letter to Nature*, Sucena, E, Delon, I, Jones, I, Payre, F, Stern, D L, **424**, 935
Erratum: Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **424**, 974
Positions, please, *Concepts*, Dillon, N, **425**, 457
Neurobiology: Backchat at the synapse, *News and views*, Salinas, P C, **425**, 464
Physiology: Fat body sizes fly, *News and views*, Heemels, M-T, **425**, 472
Regulation of neuroblast competence in *Drosophila*, *Letter to Nature*, Pearson, B J, Doe, C Q, **425**, 624
Cell biology: Enlightened messages, *News and views*, Thomas, C, **426**, 27
The immune response of *Drosophila*, *Review article*, Hoffmann, J A, **426**, 33
Methylation at lysine 4 of histone H3 in ecdysone-dependent development of *Drosophila*, *Letter to Nature*, Sedkov, Y, Cho, E, Petruk, S, Cherbas, L, Smith, S T, Jones, R S, Cherbas, P, Canaani, E, Jaynes, J B, Mazo, A, **426**, 78
Structure and nucleic-acid binding of the *Drosphila* Argonaute 2 PAZ domain, *Letter to Nature*, Lingel, A, Simon, B, Izaurralde, E, Sattler, M, **426**, 465
Structure and conserved RNA binding of the PAZ domain, *Letter to Nature*, Yan, K S, Yan, S, Farooq, A, Han, A, Zeng, L, Zhou, M-M, **426**, 469
Long-range signalling by touch, *News and views*, Cohen, S M, **426**, 503
Developmental biology: Serpin takes its toll, *News and views*, Heemels, M-T, **426**, 514
Delta-promoted filopodia mediate long-range lateral inhibition in *Drosophila*, *Letter to Nature*, de Joussineau, C, Soule, J, Martin, M, Anguille, C, Montcourrier, P, Alexandre, D, **426**, 555
A self-organizing system of repressor gradients establishes segmental complexity in *Drosophila*, *Letter to Nature*, Clyde, D E, Corado, M S G, Wu, X, Pare, A, Papatsenko, D, Small, S, **426**, 849

drought, Monsoon rains start to ease India's drought, *News*, Jayaraman, K S, **423**, 673
African project seeks model solution to water shortage, *News*, Schiermeier, Q, **424**, 359
Money pours in for work to boost crop yield in droughts, *News in brief*, **426**, 8

drug abuse, Ecstasy's after-effects, *Opinion*, **425**, 223
No dope, *News feature*, Knight, J, **426**, 114
Scientists go to jail to crack substance abuse, *News*, Singer, E, **426**, 486

drug contamination, Studies assess risks of drugs in water cycle, *News*, Schiermeier, Q, **424**, 5

drug delivery, Chemistry: Dendrimers set to self-destruct, *News and views*, Meijer, E W, van Genderen, M H P, **426**, 128

drug development, Disease proteomics, *Insight review article*, Hanash, S, **422**, 226
Drug companies snub antibiotics as pipeline threatens to run dry, *News*, Clarke, T, **425**, 225

drug resistance, Mechanism of genetic exchange in American trypanosomes, *Letter to Nature*, Gaunt, M W, Yeo, M, Frame, I A, Stothard, J R, Carrasco, H J, Taylor, M C, Mena, S S, Veazey, P, Miles, G A J, Acosta, N, Rojas de Arias, A, Miles, M A, **421**, 936
Cell biology: Drug resistance lies within, *News and views*, Pearson, H, **423**, 134
HIV drug resistance triggers strategic switch, *News*, Check, E, **424**, 361
Drug companies snub antibiotics as pipeline threatens to run dry, *News*, Clarke, T, **425**, 225

drug–drug interactions, Crystal structure of human cytochrome P450 2C9 with bound warfarin, *Letter to Nature*, Williams, P A, Cosme, J, Ward, A, Angove, H C, Vinkovic, D M, Jhoti, H, **424**, 464

Drugs for Neglected Diseases initiative, Raiding the medicine cabinet, *News feature*, Butler, D, **424**, 10

dry ice, Materials chemistry: Diamonds from dry ice, *News and views*, Ball, P, **424**, 740

duplicate publication, Journals: redundant publications are bad news, *Correspondence*, Mojon-Azzi, S M, Jiang, X, Wagner, U, Mojon, D S, **421**, 209

DuPont, Europe uproots patent for DuPont's oil-rich maize, *News in brief*, **421**, 778

dust, Mars: The devil is in the dust, *News and views*, Leovy, C B, **424**, 1008

dust, intercontinental transport, Atmospheric science: African dust in Florida clouds, *News and views*, Toon, O B, **424**, 623

dust storms, China plans clean sweep on dust storms, *News*, Cyranoski, D, **421**, 101

Duvshani, Amit, Oxford professor accused of discrimination over e-mail, *News*, Watzman, H, **424**, 7
Oxford don penalized for outburst at Israeli, *News in brief*, **424**, 120

dyneins, A magnificent machine, *News and views*, Vallee, R B, Hook, P, **421**, 701
Dynein structure and power stroke, *Article*, Burgess, S A, Walker, M L, Sakakibara, H, Knight, P J, Oiwa, K, **421**, 715
Molecular motors, *Insight review article*, Schliwa, M, Woehlke, G, **422**, 759

Dynes, Robert, Fraud-buster to be university president, *News in brief*, **423**, 794

dysferlin, Cell biology: Patches for wounded muscle, *News and views*, Ellis, J A, **423**, 129
Defective membrane repair in dysferlin-deficient muscular dystrophy, *Letter to Nature*, Bansal, D, Miyake, K, Vogel, S S, Groh, S, Chen, C-C, Williamson, R, McNeil, P L, Campbell, K P, **423**, 168

dyslexia, Lost for words, *News feature*, Murphy, G, **425**, 340
Genetics: Dyslexic inheritance, *News and views*, Lincoln, T, **425**, 573

dystostoses, The genetic basis for skeletal diseases, *Insight review article*, Zelzer, E, Olsen, B R, **423**, 343

dystroglycan protein, Neurobiology: Muscle molecule in myelin moderation, *News and views*, Pilcher, H R, **423**, 820

dystrophin, Defective membrane repair in dysferlin-deficient muscular dystrophy, *Letter to Nature*, Bansal, D, Miyake, K, Vogel, S S, Groh, S, Chen, C-C, Williamson, R, McNeil, P L, Campbell, K P, **423**, 168

E-cadherin, Cancer: Cell invasions and oestrogen receptors, *News and views*, Pilcher, H R, **422**, 829

Early Devonian period, The oldest articulated chondrichthyan from the Early Devonian period, *Letter to Nature*, Miller, R F, Cloutier, R, Turner, S, **425**, 501

Early Pliocene period, An Arctic mammal fauna from the Early Pliocene of North America, *Letter to Nature*, Tedford, R H, Harington, C R, **425**, 388

ears, A uniquely specialized ear in early tetrapod, *Letter to Nature*, Clack, J A, Ahlberg, P E, Finney, S M, Dominguez Alonso, P, Robinson, J, Ketcham, R A, **425**, 65

Earth, Planetary science: The history of air, *News and views*, Melosh, H J, **424**, 22
US observation initiative calls for fresh view of Earth, *News*, Reichhardt, T, **424**, 357

Earth, early, Geochemistry: Lost terrains of early Earth, *News and views*, Jacobsen, S B, **421**, 901
Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites, *Letter to Nature*, Bizzarro, M, Baker, J A, Haack, H, Ulfbeck, D, Rosing, M, **421**, 931
Life on a Young Planet: The First Three Billion Years of Evolution on Earth, Knoll, A H, *Book review by* Bengtson, S, **423**, 481

Earth, history, The Life and Death of Planet Earth: How the New Science of Astrobiology Charts the Ultimate Fate of our World, Ward, P D, Brownlee, D, *Book review by* Sleep, N H, **422**, 663
Water from Heaven: The Story of Water from the Big Bang to the Rise of Civilization, and Beyond, Kandel, R, *Book review by* Hillel, D, **423**, 587

Earth, interior, The Dynamic Structure of the Deep Earth: An Interdisciplinary Approach, Karato, S-I, *Book review by* Williams, Q, **426**, 231

Earth, magnetic field, The lobster navigators, *News and views*, Alerstam, T, **421**, 27
True navigation and magnetic maps in spiny lobsters, *Letter to Nature*, Boles, L C, Lohmann, K J, **421**, 60
Atmospheric physics: A new dawn for aurora, *News and views*, Newell, P T, **424**, 734
Intense equatorial flux spots on the surface of the Earth's core, *Letter to Nature*, Jackson, A, **424**, 760

Earth, magnetopause, Continuous magnetic reconnection at Earth's magnetopause, *Letter to Nature*, Frey, H U, Phan, T D, Fuselier, S A, Mende, S B, **426**, 533

Earth, origins, Geochemistry: Zircons and the early Earth, *News and views*, Lincoln, T, **421**, 331
The Man Who Found Time: James Hutton and the Discovery of the Earth's Antiquity, Repcheck, J, *Book review by* Oldroyd, D R, **423**, 920

Earth, plasma sheet, Cold ions in the hot plasma sheet of Earth's magnetotail, *Letter to Nature*, Seki, K, Hirahara, M, Hoshino, M, Terasawa, T, Elphic, R C, Saito, Y, Mukai, T, Hayakawa, H, Kojima, H, Matsumoto, H, **422**, 589

Earth, snowball theory, Snowball Earth, Nisbet, E, *Book review by* Walker, G, **422**, 812

Earth Observation Summit, Meeting agrees on unified vision of Earth, *News in brief*, **424**, 606

earth science, Earth science: Ins and outs on the ocean floor, *News and views*, Sclater, J G, **421**, 590
Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618
Earth science: Getting the measure of creep, *News and views*, Clarke, T, **421**, 709
Earth science: Mantle deformation or processing artefact?, *Brief communication*, Saul, J, Vinnik, L, **422**, 136
Reply: Earth science: Mantle deformation or processing artefact?, *Brief communication*, Wookey, J, Kendall, J-M, Barruol, G, **422**, 136
Earth science: Stream flow and shaken soil, *News and views*, Clarke, T, **422**, 393
Earth science: Stressed in Alaska, *News and views*, Lincoln, T, **422**, 572
Earth science: Roots of the matter, *News and views*, Kennett, B L N, **422**, 674
Earth science: Subduction the hard way, *News and views*, Wright, A, **423**, 24
Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68
Earth science: A slice of history, *News and views*, Asimow, P D, **423**, 491
Earth science: Core effect, *News and views*, Clarke, T, **423**, 496
Earth science: Spread thin in the Arctic, *News and views*, Klein, E M, **423**, 932
Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel Ridge, Arctic Ocean, *Article*, Michael, P J, Langmuir, C H, Dick, H J B, Snow, J E, Goldstein, S L, Graham, D W, Lehnert, K, Kurras, G, Jokat, W, Muhe, R, Edmonds, H N, **423**, 956
Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge, *Letter to Nature*, Jokat, W, Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J, **423**, 962

Earth science: High expectations, *News and views*, Clarke, T, **424**, 143
Earth science: Glaciers at work, *News and views*, Piotrowski, J A, **424**, 737
Earth science: Tiny triggers deep down, *News and views*, Green II, H W, **424**, 893
Earth science: Just add water, *News and views*, Hofmann, A W, **425**, 24
Geologists seek to put an end to blind dates, *News*, Clarke, T, **425**, 550
Earth science: How do your mountains grow?, *News and views*, Jones, N, **425**, 781
Earth science: The ultraslow difference, *News and views*, Phipps Morgan, J, **426**, 401
An ultraslow-spreading class of ocean ridge, *Article*, Dick, H J B, Lin, J, Schouten, H, **426**, 405
The living Earth, *Concepts*, Lovelock, J, **426**, 769
Earth Simulator, Supercomputer panel seeks winning formula, *News in brief*, **424**, 868
Climate model gets whirlwind treatment, *News in brief*, **425**, 552
Earth-like planets, Water worlds make a splash as the best hope for alien life, *News*, Schiermeier, Q, **424**, 866
earthquakes, Damage to the shallow Landers fault from the nearby Hector Mine earthquake, *Letter to Nature*, Vidale, J E, Li, Y-G, **421**, 524
Earth science: Getting the measure of creep, *News and views*, Clarke, T, **421**, 709
Earth science: Stream flow and shaken soil, *News and views*, Clarke, T, **422**, 393
Earth science: Stressed in Alaska, *News and views*, Lincoln, T, **422**, 572
Magmatic events can produce rapid changes in hydrothermal vent chemistry, *Letter to Nature*, Lilley, M D, Butterfield, D A, Lupton, J E, Olson, E J, **422**, 878
Quake triggers research expedition, *News*, Butler, D, **423**, 673
Earth science: High expectations, *News and views*, Clarke, T, **424**, 143
Post-earthquake ground movements correlated to pore-pressure transients, *Letter to Nature*, Jónsson, S, Segall, P, Pedersen, R, Björnsson, G, **424**, 179
Reflection signature of seismic and aseismic slip on the northern Cascadia subduction interface, *Letter to Nature*, Nedimovic, M R, Hyndman, R D, Ramachandran, K, Spence, G D, **424**, 416
Satellites aim to shake up quake predictions, *News*, Reichhardt, T, **424**, 478
Unusually large earthquakes inferred from tsunami deposits along the Kuril trench, *Letter to Nature*, Nanayama, F, Satake, K, Furukawa, R, Shimokawa, K, Atwater, B F, Shigeno, K, Yamaki, S, **424**, 660
Earth science: Tiny triggers deep down, *News and views*, Green II, H W, **424**, 893
Remote triggering of deep earthquakes in the 2002 Tonga sequences, *Letter to Nature*, Tibi, R, Wiens, D A, Inoue, H, **424**, 921
Earthquake makes waves for tsunami models, *News*, Cyranoski, D, **425**, 649
Earthquakes: Good tidings, *News and views*, Scholz, C H, **425**, 670
Migration of seismic scatterers associated with the 1993 Parkfield aseismic transient event, *Letter to Nature*, Niu, F, Silver, P G, Nadeau, R M, McEvilly, T V, **426**, 544
EarthScope, Cash boost gets Earth project off the ground, *News in brief*, **425**, 757
Eastern Europe, Too quiet on the Eastern front, *Editorial*, **421**, 459
Eastern Europe nurtures talent for the West, *Correspondence*, Gregan, J, **421**, 786
Eastern promise, *Opinion*, **426**, 369
Eastman, George, 1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761
Ebola virus, Congolese health officials confirm Ebola outbreak, *News in brief*, **421**, 882
Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551
Fast vaccine offers hope in battle with Ebola, *News*, Clarke, T, Knight, J, **424**, 602
Accelerated vaccination for Ebola virus haemorrhagic fever in non-human primates, *Letter to Nature*, Sullivan, N J, Geisbert, T W, Geisbert, J B, Xu, L, Yang, Z-Y, Roederer, M, Koup, R A, Jahrling, P B, Nabel, G J, **424**, 681
Boom, or bust?, *News feature*, Check, E, **426**, 598
ecdysone, Methylation at lysine 4 of histone H3 in ecdysone-dependent development of *Drosophila*, *Letter to Nature*, Sedkov, Y, Cho, E, Petruk, S, Cherbas, L, Smith, S T, Jones, R S, Cherbas, P, Canaani, E, Jaynes, J B, Mazo, A, **426**, 78
Structural adaptability in the ligand-binding pocket of the ecdysone hormone receptor, *Letter to Nature*, Billas, I M L, Iwema, T, Garnier, J-M, Mitschler, A, Rochel, N, Moras, D, **426**, 91
echinoderms, Developmental biology: A larval revelation, *News and views*, Lacalli, T, **421**, 120
Larval stages of a living sea lily (stalked crinoid echinoderm), *Letter to Nature*, Nakano, H, Hibino, T, Oji, T, Hara, Y, Amemiya, S, **421**, 158
Reproduction: Widespread cloning in echinoderm larvae, *Brief communication*, Eaves, A A, Palmer, A R, **425**, 146
echolocation, Echolocation: Volume control, *News and views*, Tromas, A, **423**, 815
Automatic gain control in the echolocation system of dolphins, *Letter to Nature*, Au, W W L, Benoit-Bird, K J, **423**, 861
Bottlenose dolphins perceive object features through echolocation, *Letter to Nature*, Harley, H E, Putman, E A, Roitblat, H L, **424**, 667
eclipses, Polar eclipse may cast light on solar size, *News in brief*, **426**, 376
eclogite, Growth of early continental crust by partial melting of eclogite, *Letter to Nature*, Rapp, R P, Shimizu, N, Norman, M D, **425**, 605
eclogite xenoliths, Earth science: Subduction the hard way, *News and views*, Wright, A, **423**, 24
Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68
ecological footprints, A blot on the land, *Concepts*, Rees, W E, **421**, 898
How technology can reduce our impact on the Earth, *Correspondence*, Goklany, I M, Trewavas, A J, **423**, 115
ecological interference, Ecological interference between fatal diseases, *Letter to Nature*, Rohani, P, Green, C J, Mantilla-Beniers, H B, Grenfell, B T, **422**, 865
ecological stoichiometry, Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere, Sterner, R W, Elser, J J, *Book review by* Schindler, D W, **423**, 225
ecology, The law of the jungle, *News feature*, Whitfield, J, **421**, 8
Burning issues, *News feature*, Dennis, C, **421**, 204
Cash could dry up desert ecological experiment, *News in brief*, **421**, 466
Ecology: Shady deals with lichens, *News and views*, Moore, P D, **421**, 591
Missing the big picture, *Editorial*, **421**, 675
The effect of aggressiveness on the population dynamics of a territorial bird, *Letter to Nature*, Mougeot, F, Redpath, S M, Leckie, F, Hudson, P J, **421**, 737
Ecology: Parthenogenesis in an outsider crayfish, *Brief communication*, Scholtz, G, Braband, A, Tolley, L, Reimann, A, Mittmann, B, Lukhaup, C, Steuerwald, F, Vogt, G, **421**, 806
Ecology: The how and why of biodiversity, *News and views*, Gaston, K J, **421**, 900
Ecology: Nuclear reptiles, *News and views*, Whitfield, J, **422**, 275
Ecology: Is fertilization efficiency misleading?, *Brief communication*, Hafner, S D, **422**, 397
Reply: Ecology: Is fertilization efficiency misleading?, *Brief communication*, Tilman, D, Cassman, K G, Matson, P A, Naylor, R, Polasky, S, **422**, 398
Ecological and immunological determinants of influenza evolution, *Letter to Nature*, Ferguson, N M, Galvani, A P, Bush, R M, **422**, 428
Biosphere owner sues sponsor, *News*, Gewin, V, **422**, 461
How to clean a beach, *News feature*, Whitfield, J, **422**, 464
Ecology: Ecosystem engineering, *News and views*, Whitfield, J, **422**, 487
Soil invertebrate fauna enhances grassland succession and diversity, *Letter to Nature*, De Deyn, G B, Raaijmakers, C E, Zoomer, H R, Berg, M P, de Ruiter, P C, Verhoef, H A, Bezemer, T M, van der Putten, W H, **422**, 711
Explaining the excess of rare species in natural species abundance distributions, *Letter to Nature*, Magurran, A E, Henderson, P A, **422**, 714
Ecology: A liverwort cheat, *News and views*, Lincoln, T, **422**, 826
Ecological interference between fatal diseases, *Letter to Nature*, Rohani, P, Green, C J, Mantilla-Beniers, H B, Grenfell, B T, **422**, 865
A test of the unified neutral theory of biodiversity, *Letter to Nature*, McGill, B J, **422**, 881
Ecology: News of Chews, *News and views*, Whitfield, J, **423**, 134
Universal scaling relations in food webs, *Letter to Nature*, Garlaschelli, D, Caldarelli, G, Pietronero, L, **423**, 165
Ecology: Hunting and fox numbers in the United Kingdom, *Brief communication*, Aebischer, N J, Baker, S E, Johnson, P J, Macdonald, D W, Reynolds, J C, **423**, 400
Reply: Ecology: Hunting and fox numbers in the United Kingdom, *Brief communication*, Baker, P J, Harris, S, Webbon, C C, **423**, 400
Hewett Cottrell Watson: Victorian Plant Ecologist and Evolutionist, Egerton, F N, *Book review by* Bellon, R, **423**, 589
Ecologists seek to turn tide on Colorado River, *News*, Dalton, R, **423**, 793
Ecology: Study in blue, *News and views*, Hopkin, M, **423**, 820
Ecology: Mycorrhizal weathering in base-poor forests, *Brief communication*, Watmough, S A, Dillon, P J, **423**, 823
Reply: Ecology: Mycorrhizal weathering in base-poor forests, *Brief communication*, Blum, J D, Klaue, A, Nezat, C A, Driscoll, T, Johnson, C E, Siccama, T G, Eagar, C, Fahey, T J, Likens, G E, **423**, 824
Ecology: Roots of diversity, *News and views*, Moore, P D, **424**, 26
Rapid evolution drives ecological dynamics in a predator–prey system, *Letter to Nature*, Yoshida, T, Jones, L E, Ellner, S P, Fussmann, G F, Hairston Jr, N G, **424**, 303
Ecologists count cost as wildfire ravages research station, *News in brief*, **424**, 480
Ecological advice sparks sea change in judicial opinion, *News*, Dalton, R, **424**, 603
Zoologists prime traps for California wildlife survey, *News*, Knight, J, **424**, 987
Ecology: Tail of death and resurrection, *News and views*, Harte, J, **424**, 1006
Ecology: Under attack, *News and views*, Whitfield, J, **424**, 1011
Ecological and genetic spatial structuring in the Canadian lynx, *Letter to Nature*, Rueness, E K, Stenseth, N C, O'Donoghue, M, Boutin, S, Ellegren, H, Jakobsen, K S, **425**, 69
Ecology: Human past and forest present, *News and views*, Whitfield, J, **425**, 143
Report raises hopes for grand network of US ecology centres, *News*, Dalton, R, **425**, 332
Ecology: Oxygen needs in the corals, *News and views*, Whitfield, J, **425**, 364
Biodiversity schemes take root in China, *News*, Cyranoski, D, **425**, 890
Complex Population Dynamics: A Theoretical/Empirical Synthesis, Turchin, P, *Book review by* Stenseth, N C, **426**, 18
Ecology: Palms in motion, *News and views*, Moore, P D, **426**, 26
Ecology: Eaten history, *News and views*, Whitfield, J, **426**, 514
Berkeley accused of biotech bias as ecologist is denied tenure, *News*, Dalton, R, **426**, 591
Ecologists attack endangered-species logjam, *News*, Mason, B, **426**, 592
Metabolism: Ecology shapes bird bioenergetics, *Brief communication*, McNab, B K, **426**, 620
A magnificent seven, *News and views*, Lincoln, T, **426**, 773
Ecology: Badger cull culled, *News and views*, Roper, T J, **426**, 782
Impact of localized badger culling on tuberculosis incidence in British cattle, *Letter to Nature*, Donnelly, C A, Woodroffe, R, Cox, D R, Bourne, J, Gettinby, G, Le Fevre, A M, McInerney, J P, Morrison, W I, **426**, 834
ecology, behavioural, Behavioural ecology: Coots count, *News and views*, Andersson, M, **422**, 483
Behavioural ecology: Fresh on the tang of citrus, *News and views*, Whitfield, J, **423**, 395
Behavioural ecology: Father knows best, *News and views*, Sherman, P W, Neff, B D, **425**, 136
ecology, marine, Marine ecology: Spring algal bloom and larval fish survival, *Brief communication*, Platt, T, Fuentes-Yaco, C, Frank, K T, **423**, 398
ecology, plant, Plant ecology: Tree-species competition and coexistence, *Brief communication*, Lusk, C, **422**, 580
Plant ecology: Coexistence of tropical tree species, *Brief communication*, Baker, P J, Wilson, J S, **422**, 581
Reply: Plant ecology: Coexistence of tropical tree species, *Brief communication*, Kelly, C, Bowler, M G, **422**, 582
ecology, population, Evolution in population dynamics, *News and views*, Turchin, P, **424**, 257
Population Ecology: First Principles, Vandermeer, J H, Goldberg, D E, *Book review by* Hastings, A, **424**, 881
economics, Econophysics: Master curve for price-impact function, *Brief communication*, Lillo, F, Farmer, J D, Mantegna, R N, **421**, 129
Econophysics: Two-phase behaviour of financial markets, *Brief communication*, Plerou, V, Gopikrishnan, P, Stanley, H E, **421**, 130
A theory of power-law distributions in financial market fluctuations, *Letter to Nature*, Gabaix, X, Gopikrishnan, P, Pierou, V, Stanley, H E, **423**, 267
Economics prize for duo who resolved random results, *News*, Ball, P, **425**, 651
econophysics, Econophysics: Master curve for price-impact function, *Brief communication*, Lillo, F, Farmer, J D, Mantegna, R N, **421**, 129
Econophysics: Two-phase behaviour of financial markets, *Brief communication*, Plerou, V, Gopikrishnan, P, Stanley, H E, **421**, 130
ecosystems, Fingerprints of global warming on wild animals and plants, *Letter to Nature*, Root, T L, Price, J T, Hall, K R, Schneider, S H, Rosenzweig, C, Pounds, J A, **421**, 57
Senator rebuffs academy over Arctic oil, *News*, Reichhardt, T, **422**, 103
Ecology: Ecosystem engineering, *News and views*, Whitfield, J, **422**, 487
Soil invertebrate fauna enhances grassland succession and diversity, *Letter to Nature*, De Deyn, G B, Raaijmakers, C E, Zoomer, H R, Berg, M P, de Ruiter, P C, Verhoef, H A, Bezemer, T M, van der Putten, W H, **422**, 711
Universal scaling relations in food webs, *Letter to Nature*, Garlaschelli, D, Caldarelli, G, Pietronero, L, **423**, 165
Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere, Sterner, R W, Elser, J J, *Book review by* Schindler, D W, **423**, 225
Scaling metabolism from organisms to ecosystems, *Letter to Nature*, Enquist, B J, Economo, E P, Huxman, T E, Allen, A P, Ignace, D D, Gillooly, J F, **423**, 639
Ecology: Roots of diversity, *News and views*, Moore, P D, **424**, 26
Productivity-biodiversity relationships depend on the history of community assembly, *Letter to Nature*, Fukami, T, Morin, P J, **424**, 423
Patterns of predation in a diverse predator–prey system, *Letter to Nature*, Sinclair, A R E, Mduma, S, Brashares, J S, **425**, 288
Contributions of microbial biofilms to ecosystem processes in stream mesocosms, *Letter to Nature*, Battin, T J, Kaplan, L A, Newbold, J D, Hansen, C M E, **426**, 439
ecstasy, Agony for researchers as mix-up forces retraction of ecstasy study, *News*, Knight, J, **425**, 109
Ecstasy's after-effects, *Opinion*, **425**, 223
Ecstasy proposed as help for stress victims, *News in brief*, **425**, 552
Pointless suffering of animals can be avoided, *Correspondence*, Barnard, N D, **425**, 661
Uncoupling the agony from ecstasy, *Brief communication*, Mills, I M, Banks, M L, Sprague, J E, Finkel, T, **426**, 403
EDSAC computer, A Computer Called LEO: Lyons Teashops and the World's First Office Computer, Ferry, G, *Book review by* Ralston, A, **424**, 616
education, UK wants to swap facts for issues to teach bored teens, *News in brief*, **421**, 202

Animal research needs organized defence, *Correspondence*, Smith, C G, **421**, 210
Bright students enjoy correcting the textbooks, *Correspondence*, Hughes, P, **421**, 210
School space students take ground control, *News in brief*, **421**, 307
British science courses face high fees and low interest, *News in brief*, **421**, 466
Obrazovaniye, Kotoroye My Mozhem Poteryat (The Education That We May Lose), Sadovnichii, V A, *Book review by* Soyfer, V N, **421**, 693
Universities in the Marketplace: The Commercialization of Higher Education, Bok, D, *Book review by* Gunawardena, J, **424**, 489
Original Intelligence: Unlocking the Mystery of Who We Are, Premack, D, Premack, A, *Book review by* Bryant, P, **425**, 17
Spare me the lecture, *News feature*, Powell, K, **425**, 234
Those who teach, learn, *News feature*, Powell, K, **425**, 236
EF-Tu proteins, Inferring the palaeoenvironment of ancient bacteria on the basis of resurrected proteins, *Letter to Nature*, Gaucher, E A, Thomson, J M, Burgan, M F, Benner, S A, **425**, 285
Egernia saxatilis, Ecology: Nuclear reptiles, *News and views*, Whitfield, J, **422**, 275
eggs, Palaeontology: Going to work on an egg, *News and views*, Lincoln, T, **421**, 597
eIF6, Release of eIF6 (p27BBP) from the 60S subunit allows 80S ribosome assembly, *Letter to Nature*, Ceci, M, Gaviraghi, C, Gorrini, C, Sala, L A, Offenhauser, N, Marchisio, P C, Biffo, S, **426**, 579
EIN3 protein, Differential regulation of EIN3 stability by glucose and ethylene signalling in plants, *Letter to Nature*, Yanagisawa, S, Yoo, S-D, Sheen, J, **425**, 521
Einstein, Albert, Optics: Ado about nothing much?, *News and views*, Buttiker, M, Washburn, S, **422**, 271
Einstein in Berlin, Levenson, T, *Book review by* Dyson, F J, **422**, 811
Cosmology: A just-so story, *News and views*, Krauss, L M, **423**, 230
Einstein enthusiasts gain net benefit, *News in brief*, **423**, 374
Einstein's Clocks and Poincaré's Maps: Empires of Time, Galison, P, *Book review by* Gray, J, **424**, 879
How genius can smooth the road to publication, *Correspondence*, Brummer, J, **426**, 119
Reply: How genius can smooth the road to publication, *Correspondence*, Maddox, J, **426**, 119
Einstein Probes, US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887
Eisenstein, Robert, Physicist takes the reins at Santa Fe complexity centre, *News*, Brumfiel, G, **423**, 105
El Niño, Global change: Eruptions linked to El Niño, *News and views*, de Silva, S, **426**, 239
Proxy evidence of an El Niño-lke response to volcanic forcing, *Letter to Nature*, Adams, J B, Mann, M E, Ammann, C M, **426**, 274
El Niño Southern Oscillation, Global change: The past and future of El Niño, *News and views*, Tudhope, S, Collins, M, **424**, 261
El Niño/Southern Oscillation and tropical Pacific climate during the last millennium, *Article*, Cobb, K M, Charles, C D, Cheng, H, Edwards, R L, **424**, 271
Floods of record, *News and views*, Paola, C, **425**, 459
Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation, *Letter to Nature*, Aalto, R, Maurice-Bourgoin, L, Dunne, T, Montgomery, D R, Nittrouer, C A, Guyot, J-L, **425**, 493
Proxy evidence of an El Niño-lke response to volcanic forcing, *Letter to Nature*, Adams, J B, Mann, M E, Ammann, C M, **426**, 274
electric fields, Fluid dynamics: Vortex rings in a constant electric field, *Brief communication*, Grier, D G, **424**, 267
electric jets, Atmospheric physics: Electric jets, *News and views*, Pasko, V P, **423**, 927
Gigantic jets between a thundercloud and the ionosphere, *Letter to Nature*, Su, H T, Hsu, R R, Chen, A B, Wang, Y C, Hsiao, W S, Lai, W C, Lee, L C, Sato, M, Fukunishi, H, **423**, 974
electrical discharge, Atmospheric physics: Electric jets, *News and views*, Pasko, V P, **423**, 927
Gigantic jets between a thundercloud and the ionosphere, *Letter to Nature*, Su, H T, Hsu, R R, Chen, A B, Wang, Y C, Hsiao, W S, Lai, W C, Lee, L C, Sato, M, Fukunishi, H, **423**, 974
electrical power, Coal-fired power plant to bury issue of emissions, *News*, Hoag, H, **422**, 7
electricity, Volta: Science and Culture in the Age of Enlightenment, Pancaldi, G, *Book review by* Fregonese, L, **424**, 999
electrochemistry, Electrochemistry: Magnesium power, *News and views*, Ball, P, **423**, 30
Condensed-matter physics: Hydrogen falls into line, *News and views*, Martin, R M, Galli, G, **423**, 595
electrodynamics, Ultra-high-*Q* toroid microcavity on a chip, *Letter to Nature*, Armani, D K, Kippenberg, T J, Spillane, S M, Vahala, K J, **421**, 925
electrokinetics, Water batteries make a splash in electric field, *News in brief*, **425**, 757
electroluminescence, Electroluminescent device with reversible switching between red and green emission, *Letter to Nature*, Welter, S, Brunner, K, Hofstraat, J W, De Cola, L, **421**, 54
Electronics: Polymers light the way, *News and views*, Holmes, A, **421**, 800
Multi-colour organic light-emitting displays by solution processing, *Letter to Nature*, Müller, D C, Falcou, A, Reckefuss, N, Rojahn, M, Wiederhirn, V, Rudati, P, Frohne, H, Nuyken, O, Becker, H, Meerholz, K, **421**, 829
electromagnetic energy, Stationary pulses of light in an atomic medium, *Letter to Nature*, Bajcsy, M, Zibrov, A S, Lukin, M D, **426**, 638
electromagnetic radiation, T-Ray specs, *News feature*, Zandonella, C, **424**, 721
electromagnetic waves, Electromagnetic waves: Negative refraction by photonic crystals, *Brief communication*, Cubukcu, E, Aydin, K, Ozbay, E, Foteinopoulou, S, Soukoulis, C M, **423**, 604
electron cryomicroscopy, Complete atomic model of the bacterial flagellar filament by electron cryomicroscopy, *Article*, Yonekura, K, Makl-Yonekura, S, Namba, K, **424**, 643
Electron cryo-microscopy shows how strong binding of myosin to actin releases nucleotide, *Letter to Nature*, Holmes, K C, Angert, I, Kull, F J, Jahn, W, Schröder, R R, **425**, 423
electron crystallography, From words to literature in structural proteomics, *Insight review article*, Sali, A, Glaeser, R, Earnest, T, Baumeister, W, **422**, 216
electron doping, A hidden pseudogap under the 'dome' of superconductivity in electron-doped high-temperature superconductors, *Letter to Nature*, Alff, L, Krockenberger, Y, Welter, B, Schonecke, M, Gross, R, Manske, D, Naito, M, **422**, 698
Antiferromagnetic order as the competing ground state in electron-doped $Nd_{1.85}Ce_{0.15}CuO_4$, *Letter to Nature*, Kang, H J, Dai, P, Lynn, J W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y, **423**, 522
electron spin, Magnetic enhancement of superconductivity from electron spin domains, *Letter to Nature*, Radovan, H A, Fortune, N A, Murphy, T P, Hannahs, S T, Palm, E C, Tozer, S W, Hall, D, **425**, 51
electron tomography, From words to literature in structural proteomics, *Insight review article*, Sali, A, Glaeser, R, Earnest, T, Baumeister, W, **422**, 216
electron tunnelling, Real-time detection of electron tunnelling in a quantum dot, *Letter to Nature*, Lu, W, Ji, Z, Pfeiffer, L, West, K W, Rimberg, A J, **423**, 422
electron waves, Pebbles in the nodal pond, *News and views*, Zaanen, J, **422**, 569
Relating atomic-scale electronic phenomena to wave-like quasiparticle states in superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$, *Letter to Nature*, McElroy, K, Simmonds, R W, Hoffman, J E, Lee, D-H, Orenstein, J, Eisaki, H, Uchida, S, Davis, J C, **422**, 592
electronic mail, How e-mail raises the spectre of a digital Dark Age, *Correspondence*, Friedberg, E C, Hagler, H K, Land, K J, **423**, 801
electronic paper, Electronic paper: Flexible active-matrix electronic ink display, *Brief communication*, Chen, Y, Au, J, Kazlas, P, Ritenour, A, Gates, H, McCreary, M, **423**, 136
Video-speed electronic paper based on electrowetting, *Letter to Nature*, Hayes, R A, Feenstra, B J, **425**, 383
electronic publishing, Improving science through online commentary, *Correspondence*, Eagleman, D M, Holcombe, A O, **423**, 15
Online comment could promote unfair criticism, *Correspondence*, Lumsden, A, Raff, M, Sanes, J R, **423**, 918
Impact factors: a tool of the sterile audit culture, *Correspondence*, Tuck, A, **424**, 14
Multitude of reference styles delays publication, *Correspondence*, Leslie Jr, D M, Hamilton, M J, **424**, 127
Ant book deepens divide over web publishing, *News*, Dalton, R, **424**, 985
Open-source answer to bibliography problem, *Correspondence*, Wendl, M C, Dooling, D J, **424**, 995
Defamation, online, *Opinion*, **426**, 1
Critical comments threaten to open libel floodgate for physics archive, *News*, Giles, J, **426**, 7
Preprint server seeks way to halt plagiarists, *News*, Giles, J, **426**, 7
Medical journal under attack as dissenters seize AIDS platform, *News*, Butler, D, **426**, 215
Elsevier waves goodbye to BioMedNet web portal, *News*, Giles, J, **426**, 744
electronic textiles, Super-tough carbon-nanotube fibres, *Brief communication*, Dalton, A B, Collins, S, Muñoz, E, Razal, J M, Ebron, V H, Ferraris, J P, Coleman, J N, Kim, B G, Baughman, R H, **423**, 703
electronic waste, Environmental science: Lead, leaching and landfill, *News and views*, Ball, P, **425**, 364
electronics, Attophysics: Ultrafast control, *News and views*, Bucksbaum, P H, **421**, 593
Attosecond control of electronic processes by intense light fields, *Letter to Nature*, Baltuška, A, Udem, Th, Uiberacker, M, Hentschel, M, Goulielmakis, E, Gohle, Ch, Holzwarth, R, Yakovlev, V S, Scrinzi, A, Hänsch, T W, Krausz, F, **421**, 611
Electronics: Polymers light the way, *News and views*, Holmes, A, **421**, 800
Multi-colour organic light-emitting displays by solution processing, *Letter to Nature*, Müller, D C, Falcou, A, Reckefuss, N, Rojahn, M, Wiederhirn, V, Rudati, P, Frohne, H, Nuyken, O, Becker, H, Meerholz, K, **421**, 829
Erratum: Attosecond control of electronic processes by intense light fields, *Letter to Nature*, Baltuška, A, Udem, Th., Uiberacker, M, Hentschel, M, Goulielmakis, E, Ghole, Ch., Holzwarth, R, Yakoviev, V S, Scrinzi, A, Hänsch, T W, Krausz, F, **422**, 189
Microelectronics: Clean-up for copper chips, *News and views*, Ball, P, **422**, 677
Quantum electronics: The electron is cool, *News and views*, Toschek, P E, **422**, 822
Nanotechnology: Nanotubes get sorted, *News and views*, Ball, P, **424**, 143
Materials science: The road to diamond wafers, *News and views*, Lee, S T, Lifshitz, Y, **424**, 500
Nanotechnology: A barrier falls, *News and views*, Tersoff, J, **424**, 622
Electric field effect in correlated oxide systems, *Progress article*, Ahn, C H, Triscone, J-M, Mannhart, J, **424**, 1015
Universities armed with cash for biotechnology, *News in brief*, **425**, 9
Nanotube electronics: Large-scale assembly of carbon nanotubes, *Brief communication*, Rao, S G, Huang, L, Setyawan, W, Hong, S, **425**, 36
Wires on water, *News and views*, Yang, P, **425**, 243
Electronics: Nanotechnology goes large, *News and views*, Gerstner, E, **425**, 244
Programmable computing with a single magnetoresistive element, *Letter to Nature*, Ney, A, Pampuch, C, Koch, R, Ploog, K H, **425**, 485
Photonics: Defective quality, *News and views*, Gerstner, E, **425**, 912
Femtophysics: Birth of a quasiparticle, *News and views*, Leitenstorfer, A, **426**, 23
The birth of a quasiparticle in silicon observed in time-frequency space, *Letter to Nature*, Hase, M, Kitajima, M, Constantinescu, A M, Petek, H, **426**, 51
What is there to fear from something so small, *News feature*, Giles, J, **426**, 750
See also microelectronics
electronics, organic, Organic electronics: Carbon makes contact, *News and views*, Ball, P, **426**, 242
electrosensors, Sensing temperature without ion channels, *Brief communication*, Brown, B R, **421**, 495
electrowetting, Video-speed electronic paper based on electrowetting, *Letter to Nature*, Hayes, R A, Feenstra, B J, **425**, 383
Elephant Mountain Cave, Heavy fine for light-fingered archaeologist, *News in brief*, **421**, 103
elephants, Are fast-moving elephants really running?, *Brief communication*, Hutchinson, J R, Famini, D, Lair, R, Kram, R, **422**, 493
Early work on elephant gait not to be forgotten, *Correspondence*, Sacks, O, **423**, 221
Elinvar behaviour, Metallurgy: Bend it, shape it, *News and views*, Ball, P, **422**, 829
elm trees, Amateur anglers cast as nature monitors, *News in brief*, **424**, 362
Elsevier, Cornell axes Elsevier journals as prices rise, *News*, Knight, J, **426**, 217
Elsevier waves goodbye to BioMedNet web portal, *News*, Giles, J, **426**, 744
embalming, Ancient materials: Analysis of a pharaonic embalming tar, *Brief communication*, Koller, J, Baumer, U, Kaup, Y, Scmid, M, Weser, U, **425**, 784
embryo, Developmental biology: Embryos gain foothold in the womb, *News and views*, Pearson, H, **421**, 331
Extra-embryonic function of Rb is essential for embryonic development and viability, *Letter to Nature*, Wu, L, de Bruin, A, Saavedra, H I, Starovic, M, Trimboll, A, Yang, Y, Opavska, J, Wilson, P, Thompson, J C, Ostrowski, M C, Rosol, T J, Woollett, L A, Weinstein, M, Cross, J C, Robinson, M L, Leone, G, **421**, 942
embryogenesis, *cdx4* mutants fail to specify blood progenitors and can be rescued by multiple *hox* genes, *Letter to Nature*, Davidson, A J, Ernst, P, Wang, Y, Dekens, M P S, Kingsley, P D, Palis, J, Korsmeyer, S J, Daley, G Q, Zon, L I, **425**, 300
Developmental biology: Twisting the body into shape, *News and views*, Scott, I C, Stainier, D Y R, **425**, 461
Efflux-dependent auxin gradients establish the apical-basal axis of *Arabidopsis*, *Article*, Friml, J, Vieten, A, Sauer, M, Weijers, D, Schwarz, H, Hamann, T, Offringa, R, Jürgens, G, **426**, 147
See also **Developmental biology**
embryology, Test-tube babies 'not at risk of brain defects', *News in brief*, **424**, 120
Biomaterials: Take a break, *News and views*, Pilcher, H R, **424**, 507
Developmental biology: Twisting the body into shape, *News and views*, Scott, I C, Stainier, D Y R, **425**, 461
An ancient role for nuclear β-catenin in the evolution of axial polarity and germ layer segregation, *Letter to Nature*, Wikramanayake, A H, Hong, M, Lee, P N, Pang, K, Byrum, C A, Bince, J M, Xu, R, Martindale, M Q, **426**, 446
Whose View of Life? Embryos, Cloning and Stem Cells, Maienschein, J, *Book review by* Winston, R, **426**, 603
emigration, Belarus seeks compensation for poached scientists, *News in brief*, **421**, 6
emissions, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28
Climate study highlights inadequacy of emissions cuts, *News*, Schiermeier, Q, **426**, 486
emotion, Looking for Spinoza: Joy, Sorrow and the Feeling Brain, Damasio, A, *Book review by* Dolan, R, **421**, 893
emphysema, Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
Loss of integrin αvβ6-mediated TGF-β activation causes Mmp12-dependent emphysema, *Letter to Nature*, Morris, D G, Huang, X, Kaminski, N, Wang, Y, Shapiro, S D, Dolganov, G, Glick, A, Sheppard, D, **422**, 169
employment issues, Academics are teachers and colleagues too, *Correspondence*, Greif, K F, **421**, 13
EMSY **gene**, Cancer: Sporadic insights, *News and views*, Heemels, M-T, **426**, 618
enantiomers, Chemistry: Mirrors in Flatland, *News and views*, Raval, R, **425**, 463
Enantiospecific electrodeposition of a chiral catalyst, *Letter to Nature*, Switzer, J A, Kothari, H M, Poizot, P, Nakanishi, S, Bohannan, E W, **425**, 490
Enard, Wolfgang, All that jazz... — Wolfgang Enard, *Lifelines*, **421**, 215
Encyclopaedia Britannica, Britannica: source of a passion for physics, *Correspondence*, Wong, M-L, **423**, 801

Britannica: which edition inspired Schwinger?, *Correspondence*, Wolff, A, **423**, 801

encyclopaedias, Encyclopedia of Evolution, Pagel, M, *Book review by* Peck, J, **421**, 895

Britannica: source of a passion for physics, *Correspondence*, Wong, M-L, **423**, 801

Britannica: which edition inspired Schwinger?, *Correspondence*, Wolff, A, **423**, 801

A Short History of Nearly Everything, Bryson, B, *Book review by* Gratzer, W, **424**, 725

Magic Universe: The Oxford Guide to Modern Science, *Book review*, Calder, N, Wade, N, **425**, 241

endangered species, The law of the jungle, *News feature*, Whitfield, J, **421**, 8

Conservation: Reproductive collapse in saiga antelope harems, *Brief communication*, Milner-Gulland, E J, Bukreeva, O M, Coulson, T, Lushchekina, A A, Kholodova, M V, Bekenov, A B, Grachev, I A, **422**, 135

Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551

Catastrophic ape decline in western equatorial Africa, *Letter to Nature*, Walsh, P D, Abernethy, K A, Bermejo, M, Beyers, R, De Wachter, P, Ella Akou, M, Huijbregts, B, Idiata Mambounga, D, Kamdem Toham, A, Kilbourn, A M, Lahm, S A, Latour, S, Maisels, F, Mbina, C, Mihindou, Y, Ndong Obiang, S, Ntsame Effa, E, Starkey, M P, Telfer, P, Thibault, M, Tutin, C E G, White, L J T, Wilkie, D S, **422**, 611

Europe dithers as Canada cuts cod fishing, *News*, Schiermeier, Q, **423**, 212

The Biology of Sea Turtles, Volume II, Lutz, P L, Musick, K A, Wyneken, J, *Book review by* Mrosovsky, N, **423**, 225

Whaling group backs conservation, *News*, Westney, C, **423**, 789

Ecologists seek to turn tide on Colorado River, *News*, Dalton, R, **423**, 793

Whale genetics study leaves conservationists all at sea, *News*, Clarke, T, Knight, J, **424**, 479

Endangered footage finds an online ark, *News in brief*, **424**, 480

Ecological advice sparks sea change in judicial opinion, *News*, Dalton, R, **424**, 603

Grizzly end for environmentalists' bear project, *News in brief*, **424**, 716

South Korea accused of leaving birds out to die in Wetland project, *News in brief*, **424**, 988

In a Perfect Ocean, Pauly, D, Maclean, J, *Book review by* Shepherd, J, **425**, 125

Mixed results for conservation efforts leave species dying, *News in brief*, **425**, 230

Gorilla count resumes as tensions ease in central African forests, *News in brief*, **425**, 652

Biologists seek havens for species at risk, *News*, Dalton, R, **425**, 754

Wolves under threat as rabies outbreak bites, *News in brief*, **425**, 892

Facing up to endangered apes, *Opinion*, **426**, 369

Ecologists attack endangered-species logjam, *News*, Mason, B, **426**, 592

Endeavour ridge, Constrained circulation at Endeavour ridge facilitates colonization by vent larvae, *Letter to Nature*, Thomson, R E, Mihaly, S F, Rabinovich, A B, McDuff, R E, Veirs, S R, Stahr, F R, **424**, 545

endochondral bone development, Developmental regulation of the growth plate, *Insight review article*, Kronenberg, H M, **423**, 332

endocrinology, Endocrinology: Bone adaptation requires oestrogen receptor-a, *Brief communication*, Lee, K, Jessop, H, Suswillo, R, Zaman, G, Lanyon, L, **424**, 389

endocytosis, Ectopic β-chain of ATP synthase is an apolipoprotein A-I receptor in hepatic HDL endocytosis, *Letter to Nature*, Martinez, L O, Jacquet, S, Esteve, J-P, Rolland, C, Cabezon, E, Champagne, E, Pineau, T, Georgeaud, V, Walker, J E, Terce, F, Collet, X, Perret, B, Barbaras, R, **421**, 75

Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37

Synaptotagmin I is necessary for compensatory synaptic vesicle endocytosis in vivo, *Letter to Nature*, Poskanzer, K E, Marek, K W, Sweeney, S T, Davis, G W, **426**, 559

endonucleolytic cleavage, Backtracking by single RNA polymerase molecules observed at near-base-pair resolution, *Letter to Nature*, Shaevitz, J W, Abbondanzieri, E A, Landick, R, Block, S M, **426**, 684

endoplasmic reticulum, ER-phagosome fusion defines an MHC class I cross-presentation compartment in dendritic cells, *Letter to Nature*, Guermonprez, P, Saveanu, L, Kleijmeer, M, Davoust, J, van Endert, P, Amigorena, S, **425**, 397

Quality control in the endoplasmic reticulum protein factory, *Insight progress*, Sitia, R, Braakman, I, **426**, 891

enemy release hypothesis, Release of invasive plants from fungal and viral pathogens, *Letter to Nature*, Mitchell, C E, Power, A G, **421**, 625

energetic neutral atoms, Energetic neutral atoms from a trans-Europa gas torus at Jupiter, *Letter to Nature*, Mauk, B H, Mitchell, D G, Krimigis, S M, Roelof, E C, Paranicas, C P, **421**, 920

energy, The cost of living, *Concepts*, Rich, P, **421**, 583

energy sources, Hydrocarbons and the evolution of human culture, *Insight commentary*, Hall, C, Tharakan, P, Hallock, J, Cleveland, C, Jefferson, M, **426**, 318

The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, Berner, R A, **426**, 323

Organic-inorganic interactions in petroleum-producing sedimentary basins, *Insight review article*, Seewald, J S, **426**, 327

Understanding the thermal evolution of deep-water continental margins, *Insight review article*, White, N, Thompson, M, Barwise, T, **426**, 334

Fundamental principles and applications of natural gas hydrates, *Insight review article*, Sloan Jr, E D, **426**, 353

Integration of geoscience and engineering in the oil industry — just a dream?, *Insight commentary*, Stankiewicz, B A, **426**, 360

engineering, Discussion of the Method: Conducting the Engineer's Approach to Problem Solving, Koen, B V, *Book review by* Ottino, J M, **425**, 18

Metallurgy: Cost and compromise in alloy engineering, *News and views*, Ball, P, **426**, 618

Engle, Robert, Economics prize for duo who resolved random results, *News*, Ball, P, **425**, 651

Enlightenment, Flesh in the Age of Reason, Porter, R, *Book review by* Fara, P, **426**, 497

1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761

entanglement, Quantum physics: The entangling effects of motion, *News and views*, Ball, P, **421**, 228

Experimental extraction of an entangled photon pair from two identically decohered pairs, *Letter to Nature*, Yamamoto, T, Koashi, M, Ozdemir, S K, Imoto, N, **421**, 343

Quantum computing: The qubit duet, *News and views*, Blatter, G, **421**, 796

Quantum computing: Logic gateway, *News and views*, Steane, A, **422**, 387

Experimental entanglement purification of arbitrary unknown states, *Letter to Nature*, Pan, J-W, Gasparoni, S, Ursin, R, Weihs, G, Zeilinger, A, **423**, 417

Quantum physics: Entanglement hits the big time, *News and views*, Vedral, V, **425**, 28

Controlled collisions for multi-particle entanglement of optically trapped atoms, *Letter to Nature*, Mandel, O, Greiner, M, Widera, A, Rom, T, Hänsch, T W, Bloch, I, **425**, 937

entomology, Obituary: Thomas Risley Odhiambo (1931–2003), *News and views*, Galun, R, ole-MoiYoi, O K, **425**, 142

entropy, Spin entropy as the likely source of enhanced thermopower in $Na_xCo_2O_4$, *Letter to Nature*, Wang, Y, Rogado, N S, Cava, R J, Ong, N P, **423**, 425

environmental biology, Environmental biology: Metallic worms turn, *News and views*, Whitfield, J, **424**, 740

environmental gradients, Speciation along environmental gradients, *Letter to Nature*, Doebeli, M, Dieckmann, U, **421**, 259

environmental issues, NSF urged to take multidisciplinary tack on environment, *News*, Reichhardt, T, **421**, 102

Biodiversity, Sustainability and Human Communities: Protecting Beyond the Protected, O'Riordan, T, Stoll-Kleemann, S, *Book review by* Child, B, **421**, 113

More heat, less light on Lomberg, *Editorial*, **421**, 195

Pesticide firms ask to use human data to assess safety, *News*, Reichhardt, T, **421**, 200

Ethics panel attacks environment book, *News*, Abbott, A, **421**, 201

Senators turn up heat on greenhouse gases, *News in brief*, **421**, 202

Study seeks sea change in approach to oceans, *News in brief*, **421**, 306

Cash could dry up desert ecological experiment, *News in brief*, **421**, 466

Poor farmers warned against Internet transgenic crop deals, *News*, Dalton, R, **421**, 776

Fire science for rainforests, *Review article*, Cochrane, M A, **421**, 913

Coal-fired power plant to bury issue of emissions, *News*, Hoag, H, **422**, 7

Senator rebuffs academy over Arctic oil, *News*, Reichhardt, T, **422**, 103

Danish study hints at biodiversity boost from transgenic crops, *News in brief*, **422**, 250

Risk and Reason: Safety, Law, and the Environment, Sunstein, CR, *Book review by* Pierrehumbert, R T, **422**, 263

Conflicts undermine global forum's push for safe water, *News*, Cyranoski, D, **422**, 364

US senate upholds ban on oil drilling in wildlife refuge, *News in brief*, **422**, 366

Chemical catastrophe poisons Brazilian rivers, *News in brief*, **422**, 552

Atlantic cod meet icy death, *News*, Hoag, H, **422**, 792

Royal society to give prince nanotech news, *News in brief*, **423**, 8

Telescope loses space to Native American site, *News in brief*, **423**, 8

The man they love to hate, *News feature*, Giles, J, **423**, 216

Impact of urbanization and land use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **423**, 528

Catalysis: A greener solution, *News and views*, Leitner, W, **423**, 930

Court rejects corner-cutting in bid to clear atomic waste, *News in brief*, **424**, 120

Don't believe the hype, *Opinion*, **424**, 237

UK experts map out route to licensing transgenic crops, *News*, Giles, J, **424**, 358

Catastrophic extinctions follow deforestation in Singapore, *Letter to Nature*, Brook, B W, Sodhi, N S, Ng, P K L, **424**, 420

Court rule against NASA over Hawaiian telescope, *News in brief*, **424**, 480

Ecological advice sparks sea change in judicial opinion, *News*, Dalton, R, **424**, 603

No way to run a superpower, *Opinion*, **424**, 861

South Korea accused of leaving birds out to die in Wetland project, *News in brief*, **424**, 988

Court ruling sounds note of caution for sonar system, *News*, Dalton, R, **425**, 6

Corrigendum: Impact of urbanization and land-use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **425**, 102

United Nations set help China plan its environmental future, *News in brief*, **425**, 336

The Suffering Gene: Environmental Threats to our Health, Burdon, R, *Book review by* Cox, R, **425**, 346

Scientists split over regulations on sonar use, *News*, Dalton, R, **425**, 549

Judge's sacking rocks Everglades clean-up, *News*, Mason, B, **425**, 551

Arctic clean-up project aims to confront Soviet pollution legacy, *News in brief*, **425**, 892

Emissions row gives EPA head tough start, *News in brief*, **426**, 112

Earth maps put environment treaties into perspective, *News in brief*, **426**, 489

What is there to fear from something so small, *News feature*, Giles, J, **426**, 750

environmental science, Environmental science: Shades of China, *News and views*, Clarke, T, **423**, 134

Environmental science: Lead, leaching and landfill, *News and views*, Ball, P, **425**, 364

Envisat satellite, Islands in the pink, *News in brief*, **422**, 8

Eyes in the sky to look out for heritage sites, *News in brief*, **424**, 9

enzymes, CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members, *Letter to Nature*, Trompouki, E, Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G, **424**, 793

epidemics, Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131

Health labs focus on mystery pneumonia, *News*, Cyranoski, D, **422**, 247

Mystery virus slow to yield its identity as patient numbers rise, *News*, Pearson, H, **422**, 364

Ecological and immunological determinants of influenza evolution, *Letter to Nature*, Ferguson, N M, Galvani, A P, Bush, R M, **422**, 428

China joins investigation of mystery pneumonia, *News*, Cyranoski, D, **422**, 459

There are two sides to biodefence, *Opinion*, **422**, 545

Cancer conference scrapped as outbreak intensifies, *News*, Clarke, T, **422**, 547

Researchers get to grips with cause of pneumonia epidemic, *News*, Knight, J, **422**, 547

Chinese authorities admit mishandling of Guangdong crisis, *News*, Cyranoski, D, **422**, 548

Infection risk puts the brakes on Canada's biomedical research, *News*, Clarke, T, **422**, 652

Taiwan left isolated in fight against SARS, *News*, Cyranoski, D, **422**, 652

Ecological interference between fatal diseases, *Letter to Nature*, Rohani, P, Green, C J, Mantilla-Beniers, H B, Grenfell, B T, **422**, 865

Apartment complex holds clues to pandemic potential of SARS, *News*, Cyranoski, D, Abbott, A, **423**, 3

Biologists seek to head off future sources of infection, *News*, Abbott, A, Cyranoski, D, **423**, 3

Critics slam treatment for SARS as ineffective and perhaps dangerous, *News*, Cyranoski, D, **423**, 4

Asian airports use thermal imaging to hunt down SARS, *News in brief*, **423**, 8

The Deadly Truth: A History of Disease in America, Grob, G, *Book review by* Bynum, W F, **423**, 19

US Army joins hunt for SARS drug, *News*, Abbott, A, **423**, 103

US fails to quantify threat of West Nile virus, *News*, Hoag, H, **423**, 104

First past the post, *News feature*, Abbott, A, **423**, 114

Animal studies hint at staying power of SARS, *News*, Pearson, H, **423**, 370

Politics hindering SARS work, *Correspondence*, Hsieh, Y-H, **423**, 381

Virus detectives seek source of SARS in China's wild animals, *News*, Cyranoski, D, Abbott, A, **423**, 467

Taiwan slams health officials for 'lack of help' over SARS, *News in brief*, **423**, 472

Pet theory comes to the fore in fight against SARS, *News*, Abbott, A, **423**, 576

SARS, a challenge from the South, *Correspondence*, Singh, J A, **423**, 585

Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Jones, J H, Handcock, M S, **423**, 605

Reply: Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Liljeros, F, Edling, C R, Stanley, H E, Aberg, Y, Amaral, L A N, **423**, 606

SARS anxiety disrupts conferences, *News in brief*, **423**, 676

Combating AIDS: Communication Strategies in Action, Singhal, A, Rogers, E M, *Book review by* Priya, R, **423**, 685

Virology: Pigs duck out of the influenza mix, *News and views*, Clarke, T, **423**, 702

China and Germany join forces over SARS, *News*, Abbott, A, **423**, 791

WHO issues rallying cry to keep fight against SARS on track, *News*, Cyranoski, D, **423**, 905

We have been warned, *Opinion*, **424**, 113

Was the fuss overblown?, *News feature*, Pearson, H, **424**, 121

Is the outbreak finally over?, *News feature*, Clarke, T, **424**, 122

Are we prepared for the next viral threat?, *News feature*, Abbott, A, **424**, 123
How and who does SARS kill?, *News feature*, Knight, J, **424**, 123
Where did the SARS virus come from?, *News feature*, Cyranoski, D, **424**, 124
Why China?, *News feature*, Cyranoski, D, **424**, 124
Are drugs for SARS on the horizon?, *News feature*, Abbott, A, **424**, 125
Is the SARS virus mutating?, *News feature*, Knight, J, **424**, 125
What about a vaccine?, *News feature*, Clarke, T, **424**, 126
Improved SARS test cuts final case count in United States, *News in brief*, **424**, 362
Quest for SARS source gathers pace in bid to thwart resurgence, *News*, Abbott, A, **424**, 983
SARS triggers biomedical shake-up in China, *News*, Cyranoski, D, **425**, 333
Planning for smallpox outbreaks, *Review article*, Ferguson, N M, Keeling, M J, Edmunds, W J, Gani, R, Grenfell, B T, Anderson, R M, Leach, S, **425**, 681
SARS virus infection of cats and ferrets, *Brief communication*, Martina, B E E, Haagmans, B L, Kuiken, T, Fouchier, R A M, Rimmelzwaan, G F, van Amerongen, G, Peiris, J S M, Lim, W, Osterhaus, A D M E, **425**, 915
Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus, *Letter to Nature*, Li, W, Moore, M J, Vasilieva, N, Sui, J, Wong, S K, Berne, M A, Somasundaran, M, Sullivan, J L, Luzuriaga, K, Greenough, T C, Choe, H, Farzan, M, **426**, 450
Epidemics-in-waiting, *News and views*, Bull, J, Dykhuizen, D, **426**, 609
China: From SARS to the stars, *News feature*, Cyranoski, D, **426**, 752
epidemiology, Epidemiology: Conditions for dengue fever, *News in brief*, Clarke, T, **421**, 493
Epidemiologists warn of widespread arsenic problem in India, *News in brief*, **421**, 778
Sexual transmission of HIV in Africa, *Brief communication*, Walker, P R, Worobey, M, Rambaut, A, Holmes, E C, Pybus, O G, **422**, 679
epidermal growth factor receptor, Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab, *Letter to Nature*, Cho, H-S, Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J, **421**, 756
Mitochondrial membrane remodelling regulated by a conserved rhomboid protease, *Letter to Nature*, McQuibban, G A, Saurya, S, Freeman, M, **423**, 537
Epidermal growth factor receptor is a cellular receptor for human cytomegalovirus, *Letter to Nature*, Wang, X, Huong, S-M, Chiu, M L, Raab-Traub, N, Huang, E-S, **424**, 456
epigenetic inheritance, Feature: Controlling the double helix, *Feature*, Felsenfeld, G, Groudine, M, **421**, 448
epigenetics, Altered states, *News feature*, Dennis, C, **421**, 686
epitaxy, Understanding and tuning the epitaxy of large aromatic adsorbates by molecular design, *Letter to Nature*, Eremtchenko, M, Schaefer, J A, Tautz, F S, **425**, 602
epithelial cells, Just mix and patch, *News and views*, Mostov, K, Zegers, M, **422**, 267
Segregation of receptor and ligand regulates activation of epithelial growth factor receptor, *Letter to Nature*, Vermeer, P D, Einwalter, L A, Moninger, T O, Rokhlina, T, Kern, J A, Zabner, J, Welsh, M J, **422**, 322
epithelium, Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity, *Letter to Nature*, Speck, O, Hughes, S C, Noren, N K, Kulikauskas, R M, Fehon, R G, **421**, 83
Control of dynamic CFTR selectivity by glutamate and ATP in epithelial cells, *Letter to Nature*, Reddy, M M, Quinton, P M, **423**, 756
epoxidation, Epoxidation of polybutadiene by a topologically linked catalyst, *Letter to Nature*, Thordarson, P, Bijsterveld, E J A, Rowan, A E, Nolte, R J M, **424**, 915
epoxyeicosatrienoic acids, Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels, *Letter to Nature*, Watanabe, H, Vriens, J, Prenen, J, Droogmans, G, Voets, T, Nilius, B, **424**, 434
Epstein-Barr virus, Medicine: Virus offers life support to cancer, *News and views*, Heemels, M-T, **426**, 242
Equator, Climate: Warmth, wind and water, *News and views*, Lincoln, T, **426**, 514
***ERas* gene**, Role of ERas in promoting tumour-like properties in mouse embryonic stem cells, *Letter to Nature*, Takahashi, K, Mitsui, K, Yamanaka, S, **423**, 541
erasable electrostatic lithography, Erasable electrostatic lithography for quantum components, *Letter to Nature*, Crook, R, Graham, A C, Smith, C G, Farrer, I, Beere, H E, Ritchie, D A, **424**, 751
ERAVMIS, Studies assess risks of drugs in water cycle, *News*, Schiermeier, Q, **424**, 5
erbB2 protein, Just mix and patch, *News and views*, Mostov, K, Zegers, M, **422**, 267
Segregation of receptor and ligand regulates activation of epithelial growth factor receptor, *Letter to Nature*, Vermeer, P D, Einwalter, L A, Moninger, T O, Rokhlina, T, Kern, J A, Zabner, J, Welsh, M J, **422**, 322
Ercc2, Xpd/Ercc2 regulates CAK activity and mitotic progression, *Letter to Nature*, Chen, J, Larochelle, S, Li, X, Suter, B, **424**, 228
erectile dysfunction, Structure of the catalytic domain of human phosphodiesterase 5 with bound drug molecules, *Letter to Nature*, Sung, B-J, Hwang, K Y, Jeon, Y H, Lee, J I, Heo, Y-S, Kim, J H, Moon, J, Yoon, J M, Hyun, Y-L, Kim, E, Eum, S J, Park, S-Y, Lee, J-O, Lee, T G, Ro, S, Cho, J M, **425**, 98
erosion, Stabilizing feedbacks in glacier-bed erosion, *Letter to Nature*, Alley, R B, Lawson, D E, Larson, G J, Evenson, E B, Baker, G S, **424**, 758
Geomorphology: Nature, nurture and landscape, *News and views*, Molnar, P, **426**, 612
Coupled spatial variations in precipitation, *Letter to Nature*, Reiners, P W, Ehlers, T A, Mitchell, S G, Montgomery, D R, **426**, 645
Links between erosion, runoff variability and seismicity in the Taiwan orogen, *Letter to Nature*, Dadson, S J, Hovius, N, Chen, H, Dade, W B, Hsieh, M-L, Willett, S D, Hu, J-C, Horng, M-J, Chen, M-C, Stark, C P, Lague, D, Lin, J-C, **426**, 648
Decoupling of erosion and precipitation in the Himalayas, *Letter to Nature*, Burbank, D W, Blythe, A E, Putkonen, J, Pratt-Sitaula, B, Gabet, E, Oskin, M, Barros, A, Ojha, T P, **426**, 652
erythropoietin, No dope, *News feature*, Knight, J, **426**, 114
Escherichia coli, Structure of the *Escherichia coli* ribosomal termination complex with release factor 2, *Letter to Nature*, Klaholz, B P, Pape, T, Zavlalov, A V, Myasnikov, A G, Orlova, E V, Vestergaard, B, Ehrenberg, M, van Heel, M, **421**, 90
Biomechanics: Bacterial flagellar switching under load, *Brief communication*, Fahrner, K A, Ryu, W S, Berg, H C, **423**, 938
Evolutionary biology: Loss for profit, *News and views*, Whitfield, J, **425**, 34
When Food Kills: BSE, *E. coli* and Disaster Science, Pennington, H, *Book review by* Rubery, E, **425**, 561
eScience Telescopes for Astronomical Research, Computer programs to call the shots for astronomers, *News in brief*, **425**, 756
espionage, Anything you can do, *Opinion*, **422**, 647
Livermore official linked with alleged spy, *News*, Brumfiel, G, **422**, 651
Lie probes to continue at US weapons labs, *News*, Brumfiel, G, **422**, 793
Biologist gets minimum sentence in 'espionage' case, *News*, Cyranoski, D, **423**, 575
Russian scientists face long fight for justice, *News*, MacWilliams, B, **424**, 477
ETC group, What is there to fear from something so small, *News feature*, Giles, J, **426**, 750
ethical issues, Human cloning claim sparks fear of Senate backlash, *News*, Macilwain, C, **421**, 3
Petition calls for clampdown on absentee Chinese researchers, *News*, Cyranoski, D, **421**, 3
Strict guidelines make it clear who's responsible, *Correspondence*, Sarachik, M P, **421**, 111
Prospect of human cloning poses dilemma for journals, *News*, Pearson, H, **421**, 199
Ethics panel attacks environment book, *News*, Abbott, A, **421**, 201
Journals: redundant publications are bad news, *Correspondence*, Mojon-Azzi, S M, Jiang, X, Wagner, U, Mojon, D S, **421**, 209
Is a scientific boycott ever justified?, *Commentary*, Blakemore, C, Dawkins, R, Noble, D, Yudkin, M, **421**, 314
Social scientists call for abolition of dishonesty committee, *News*, Abbott, A, **421**, 681
Scientific freedom: new strategies are needed, *Correspondence*, Lubchenco, J, Rosswall, T, Warren, P, **421**, 785
Scientific freedom: some face a lonely dilemma, *Correspondence*, Macy, R, **421**, 785
Researchers divided over ethics of a ban on cloning, *News*, Abbott, A, **423**, 373
Silence of the neuroengineers, *Opinion*, **423**, 787
Reproductive cloning: an attack on human dignity, *Correspondence*, Leader, D P, **424**, 14
Reproductive cloning: don't rush to judgement, *Correspondence*, Robertson, J A, **424**, 14
Europe split over move to loosen stem-cell regulations, *News*, Abbott, A, **424**, 117
Military-funded research is not unethical, *Correspondence*, Rizzuto, D S, Breznen, B, Greger, B, **424**, 369
Drugs are for beauty too, *Opinion*, **424**, 981
Science and ethics must not be separated, *Correspondence*, Copland, P, **425**, 121
An ethical dilemma, *Commentary*, Rose, H, **425**, 123
Secrecy damages the NIH, *Opinion*, **426**, 739
Ethiopia, Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549
Ethiopian wolf, Wolves under threat as rabies outbreak bites, *News in brief*, **425**, 892
ethylene, Differential regulation of EIN3 stability by glucose and ethylene signalling in plants, *Letter to Nature*, Yanagisawa, S, Yoo, S-D, Sheen, J, **425**, 521
eugenics, Genetic Politics: From Eugenics to Genome, Kerr, A, Shakespeare, T, *Book review by* Steinbock, B, **421**, 213
Eukarya, Inferring the palaeoenvironment of ancient bacteria on the basis of resurrected proteins, *Letter to Nature*, Gaucher, E A, Thomson, J M, Burgan, M F, Benner, S A, **425**, 285
eukaryotes, Role for antisense RNA in regulating circadian clock function in *Neurospora crassa*, *Letter to Nature*, Kramer, C, Loros, J L, Dunlap, J C, Crosthwaite, S K, **421**, 948
Noise in eukaryotic gene expression, *Letter to Nature*, Blake, W J, Kaern, M, Cantor, C R, Collins, J J, **422**, 633
The cytoskeleton, cellular motility and the reductionist agenda, *Insight overview*, Pollard, T D, **422**, 741
Cell division, *Insight review article*, Scholey, J M, Brust-Mascher, I, Mogilner, A, **422**, 746
Dynamics and mechanics of the microtubule plus end, *Insight review article*, Howard, J, Hyman, A A, **422**, 753
Revelations from a bread mould, *News and views*, Arnold, J, Hilton, N, **422**, 821
The genome sequence of the filamentous fungus *Neurospora crassa*, *Article*, Galagan, J E, Calvo, S E, Borkovich, K A, Selker, E U, Read, N D, Jaffe, D, FitzHugh, W, Ma, L-J, Smirnov, S, Purcell, S, Rehman, B, Elkins, T, Engels, R, Wang, S, Nielsen, C B, Butler, J, Endrizzi, M, Qui, D, Ianakiev, P, Bell-Pedersen, D, Nelson, M A, Werner-Washburne, M, Selitrennikoff, C P, Kinsey, J A, Braun, E L, Zelter, A, Schulte, U, Kothe, G O, Jedd, G, Mewes, W, Staben, C, Marcotte, E, Greenberg, D, Roy, A, Foley, K, Naylor, J, Stange-Thomann, N, Barrett, R, Gnerre, S, Kamal, M, Kamvysselis, M, Mauceli, E, Bielke, C, Rudd, S, Frishman, D, Krystofova, S, Rasmussen, C, Metzenberg, R L, Perkins, D D, Kroken, S, Cogoni, C, Macino, G, Catcheside, D, Li, W, Pratt, R J, Osmani, S A, DeSouza, C P C, Glass, L, Orbach, M J, Berglund, J A, Voelker, R, Yarden, O, Plamann, M, Seiler, S, Dunlap, J, Radford, A, Aramayo, R, Natvig, D O, Alex, L A, Mannhaupt, G, Ebbole, D J, Freitag, M, Paulsen, I, Sachs, M S, Lander, ES, Nusbaum, C, Birren, B, **422**, 859
The methylated component of the *Neurospora crassa* genome, *Letter to Nature*, Selker, E U, Tountas, N A, Cross, S H, Margolin, B S, Murphy, J G, Bird, A P, Freitag, M, **422**, 893
The structure of DNA in the nucleosome core, *Article*, Richmond, T J, Davey, C A, **423**, 145
Functional proteomic identification of DNA replication proteins by induced proteolysis *in vivo*, *Article*, Kanemaki, M, Sanchez-Diaz, A, Gambus, A, Labib, K, **423**, 720
Evolutionary biology: Golgi traces revealed, *News and views*, Pearson, H, **424**, 1011
The evolutionary inheritance of elemental stoichiometry in marine phytoplankton, *Letter to Nature*, Quigg, A, Finkel, Z V, Irwin, A J, Rosenthal, Y, Ho, T-Y, Reinfelder, J R, Schofield, O, Morel, F M M, Falkowski, P G, **425**, 291
Essence of mitochondria, *News and views*, Henze, K, Martin, W, **426**, 127
Mitochondrial remnant organelles of *Giardia* function in iron-sulphur protein maturation, *Letter to Nature*, Tovar, J, Leon Avila, G, Sanchez, L B, Sutak, R, Tachezy, J, van der Glezen, M, Hernández, M, Müller, M, Lucocq, J M, **426**, 172
Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor, *Article*, Renault, L, Guibert, B, Cherfils, J, **426**, 525
eupatorium, The earliest recorded plant virus disease, *Brief communication*, Saunders, K, Bedford, I D, Yahara, T, Stanley, J, **422**, 83
Euplectella, Fibre-optical features of a glass sponge, *Brief communication*, Sundar, V C, Yablon, A D, Grazul, J L, Ilan, M, Aizenberg, J, **424**, 899
Euprymna scolopes, Cephalopod *Hox* genes and the origin of morphological novelties, *Letter to Nature*, Lee, P N, Callaerts, P, de Couet, H G, Martindale, M Q, **424**, 1061
Europa (moon of Jupiter)
Energetic neutral atoms from a trans-Europa gas torus at Jupiter, *Letter to Nature*, Mauk, B H, Mitchell, D G, Krimigis, S M, Roelof, E C, Paranicas, C P, **421**, 920
Astrobiology: A salty life on Europa?, *News and views*, Ball, P, **422**, 829
Europe, Europe uproots patent for DuPont's oil-rich maize, *News in brief*, **421**, 778
Scientists blast European vote to limit stem-cell work, *News in brief*, **422**, 654
Europe, biotechnology, Biotechnology industry plateaus out in Europe, *News in brief*, **423**, 108
Europe, climate, Heatwave underlines climate-model failures, *News*, Butler, D, **424**, 867
Europe, floods, No upward trends in the occurrence of extreme floods in central Europe, *Letter to Nature*, Mudelsee, M, Borngen, M, Teztlaff, G, Grunewald, U, **425**, 166
Europe, Global Positioning System, Europe's global navigation system heads east, *News in brief*, **425**, 337
Europe, pollution, Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
Europe, research funding, Commission lays foundations for rise in research spending, *News*, Butler, D, **423**, 6
Europe, stem-cell research, Europe dithers over regulations fo stem-cell research, *News*, Abbott, A, **426**, 595
European Commission, Commission lays foundations for rise in research spending, *News*, Butler, D, **423**, 6
European deal aims to attract Arab scientists, *News*, Nosengo, N, **423**, 906
Time runs short for opponents of chemical-testing rules, *News*, Murphy, G, **424**, 241
Europe insists fusion-project race remains wide open, *News*, Butler, D, **424**, 867
Europe bans deep-sea trawling to save coral, *News in brief*, **424**, 988
European Commission dips toe into military research, *News*, Willerroider, M, **425**, 549
Europe kills cash flow to EURESCO science meetings, *News*, Schiermeier, Q, **425**, 890
Science needs the commission, Sturm und Drang and all, *Opinion*, **426**, 481
Europe eyes merit-based agency, *News*, Abbott, A, **426**, 487
Europe dithers over regulations for stem-cell research, *News*, Abbott, A, **426**, 595
European Commission, genetic engineering, Genetic-engineerin projects falling by the wayside in Europe, *News in brief*, **422**, 106
European Cultural Heritage Online, Open access wins Germa support, *News*, Schiermeier, Q, **425**, 752

European Fireball Network, Catch a falling star, *News and views*, Drummond, J, **423**, 123
European Molecular Biology Organization (EMBO), Grants plan paves way for Europe-wide funding body, *News in brief*, **424**, 244
EMBO chief threatens to quit over funding crisis, *News*, Schiermeier, Q, **426**, 743
European Research Conferences (EURESCO), Europe kills cash flow to EURESCO science meetings, *News*, Schiermeier, Q, **425**, 890
European Research Council, Europe draws up plans for funding agency, *News*, Degen, M, **421**, 881
Research council plan for Europe gets up steam, *News*, Abbott, A, **425**, 440
Outline for a European Research Council, *Correspondence*, Featherstone, C, Simons, K, **425**, 451
Help basic science, cry European Nobellists, *News in brief*, **425**, 552
Science needs the commission, Sturm und Drang and all, *Opinion*, **426**, 481
Europe eyes merit-based agency, *News*, Abbott, A, **426**, 487
European Round Table of Industrialists, Commission lays foundations for rise in research spending, *News*, Butler, D, **423**, 6
European Space Agency, Comet mission hangs in the balance, *News*, Adam, D, Butler, D, **421**, 102
Safety doubts force rethink of embattled comet mission, *News*, Butler, D, **421**, 198
Fair play for trial balloons, *Editorial*, **421**, 299
Failed mission launch prompts ESA to reconsider comet target, *News*, Butler, D, **421**, 301
Report backs military axis on space, *News*, Butler, D, **421**, 301
Islands in the pink, *News in brief*, **422**, 8
Spiralling costs dog comet mission, *News*, Butler, D, **423**, 372
Mars attracts!, *News feature*, Giles, J, **423**, 473
Cost-cutting reflected in shrinking mirror, *News in brief*, **423**, 578
Repositioned Sun satellite beams in weather reports, *News in brief*, **423**, 910
Japan joins Europe's bid to get Bepi Colombo to Mercury, *News in brief*, **424**, 8
Eyes in the sky to look out for heritage sites, *News in brief*, **424**, 9
Science shunted to the sidelines as EU sets out its space agenda, *News*, Butler, D, **424**, 115
Ion-powered probe set for year-long Moon trek, *News*, Brumfiel, G, **425**, 438
US on sidelines as China prepares for satellite launch, *News*, Reichhardt, T, **426**, 375
European Spallation Source, Fading support ends Europe's dreams of neutron supremacy, *News*, Schiermeier, Q, **421**, 563
Britain shuts door on extra neutron source, *News in brief*, **422**, 654
Britain takes fresh look at spallation source, *News in brief*, **424**, 244
European Union, Joint European plan will tackle Africa's killer diseases, *News*, McDowell, N, **421**, 5
Fishermen battered by scale of fish quota, *News in brief*, **421**, 6
Paris university blasted over Israel motion, *News*, Butler, D, **421**, 200
Too quiet on the Eastern front, *Editorial*, **421**, 459
Europe seeks single defence research agency, *News*, Schiermeier, Q, **421**, 465
Poles apart, or together with Europe?, *News feature*, Schiermeier, Q, **421**, 471
Eastern Europe nurtures talent for the West, *Correspondence*, Gregan, J, **421**, 786
Europe draws up plans for funding agency, *News*, Degen, M, **421**, 881
Europe told to unite on spy satellites, *News*, Schiermeier, Q, **422**, 361
Trade war: what is it good for?, *Opinion*, **423**, 367
Trade war looms as US launches challenge over transgenic crops, *News*, Knight, J, **423**, 369
Building bridges, *Opinion*, **423**, 903
European deal aims to attract Arab scientists, *News*, Nosengo, N, **423**, 906
Fusion cash shortfall leaves JET grounded, *News*, Giles, J, **424**, 4
Europe finds transgenic food hard to swallow, *News*, Giles, J, **424**, 116
Europe split over move to loosen stem-cell regulations, *News*, Abbott, A, **424**, 117
Time runs short for opponents of chemical-testing rules, *News*, Murphy, G, **424**, 241
Czech stem-cell work heightens calls for EU ruling, *News*, Abbott, A, **424**, 602
Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217
Europe urged to counter nuclear proliferation threat, *News*, Brumfiel, G, **426**, 219
Eastern promise, *Opinion*, **426**, 369
Science needs the commission, Sturm und Drang and all, *Opinion*, **426**, 481
Europe eyes merit-based agency, *News*, Abbott, A, **426**, 487
Europe launches attack on bacterial resistance, *News in brief*, **426**, 488
European Union, research funding, Red tape frustrates Europe's fund-seekers, *News*, Jox, R, **424**, 605
European Young Investigators awards, Europe offers grants to young stars, *News*, Giles, J, **425**, 225
European–Developing Countries Clinical Trials Programme, Joint European plan will tackle Africa's killer diseases, *News*, McDowell, N, **421**, 5
EuroScience Open Forum, European scientists plan jamboree in 2004, *News in brief*, **421**, 567
A meeting for Europe's scientists and publics, *Opinion*, **423**, 571
evaporation, Wetting properties: When larger drops evaporate faster, *Brief communication*, Leizerson, I, Lipson, S G, Lyushnin, A V, **422**, 395
Everglades, Judge's sacking rocks Everglades clean-up, *News*, Mason, B, **425**, 551
evolution, Student cries foul over evolutionary snub, *News in brief*, **421**, 566
Darwin's Blind Spot: Evolution Beyond Natural Selection, Ryan, F, *Book review by* Frank, S, A, **421**, 579
Evolution: Aquatic life and the larger male, *News and views*, Whitfield, J, **421**, 597
Encyclopedia of Evolution, Pagel, M, *Book review by* Peck, J, **421**, 895
Darwin and Barnacle, Stott, R, *Book review by* Schram, F R, **422**, 472
Nature via Nurture: Genes, Experience and What Makes Us Human, Ridley, M, *Book review by* Berry, A, **422**, 814
The Story of Life, Southwood, R, *Book review by* Zimmer, C, **422**, 815
Freedom evolves, Dennett, D, *Book review by* Konner, M, **423**, 17
The evolutionary origin of complex features, *Article*, Lenski, R E, Ofria, C, Pennock, R T, Adami, C, **423**, 139
When Life Nearly Died: The Greatest Mass Extinction of All Time, Benton, M, *Book review by* Bowler, P J, **423**, 384
Life on a Young Planet: The First Three Billion Years of Evolution on Earth, Knoll, A H, *Book review by* Bengtson, S, **423**, 481
Water from Heaven: The Story of Water from the Big Bang to the Rise of Civilization, and Beyond, Kandel, R, *Book review by* Hillel, D, **423**, 587
Hewett Cottrell Watson: Victorian Plant Ecologist and Evolutionist, Egerton, F N, *Book review by* Bellon, R, **423**, 589
Darwin and Design: Does Evolution Have a Purpose?, Ruse, M, *Book review by* Ridley, M, **423**, 686
Adaptive evolution drives divergence of a hybrid inviability gene between two species of *Drosophila*, *Article*, Presgraves, D C, Balagopalan, L, Abmayr, S M, Orr, H A, **423**, 715
Evolution: The battle between the sexes, *News and views*, Tregenza, T, **423**, 929
The evolution of reproductive isolation through sexual conflict, *Letter to Nature*, Martin, O Y, Hosken, D J, **423**, 979
Developmental Plasticity and Evolution, West-Eberhard, M J, *Book review by* de Jong, G, Crozier, R H, **424**, 16
The Development of Animal Form: Ontogeny, Morphology, and Evolution, Minelli, A, *Book review by* Meyer, A, **424**, 255
Evolution in population dynamics, *News and views*, Turchin, P, **424**, 257
Rapid evolution drives ecological dynamics in a predator–prey system, *Letter to Nature*, Yoshida, T, Jones, L E, Ellner, S P, Fussmann, G F, Hairston Jr, N G, **424**, 303
Darwin's Children: Evolution Has Changed the Face of the World, Bear, G, *Book review by* Goldman, M, **424**, 726
Developmental biology: Hotspots for evolution, *News and views*, Richardson, M K, Brakefield, P M, **424**, 894
Genetic mechanisms and constraints governing the evolution of correlated traits in drosophilid flies, *Letter to Nature*, Gompel, N, Carroll, S B, **424**, 931
Evolution and Learning: The Baldwin Effect Reconsidered, Weber, B H, Depew, D J, *Book review by* Laland, K N, **425**, 345
Evolution: Opportunity versus innovation, *News and views*, Harvey, P H, Purvis, A, **425**, 676
Niche Construction: The Neglected Process in Evolution, *Book review*, Odling-Smee, F J, Laland, K N, Feldman, M W, Keller, L, **425**, 769
Evolution: Ending incongruence, *News and views*, Gee, H, **425**, 782
Changing sex at the same relative body size, *Brief communication*, Allsop, D J, West, S A, **425**, 783
Sheep horns downsized by hunters' taste for trophies, *News*, Whitfield, J, **426**, 595
Undesirable evolutionary consequences of trophy hunting, *Letter to Nature*, Coltman, D W, O'Donoghue, P, Jorgensen, J T, Hogg, J T, Strobeck, C, Festa-Blanchet, M, **426**, 655
The role of evolutionary in the emergence of infectious diseases, *Letter to Nature*, Antia, R, Regoes, R R, Koella, J C, Bergstrom, C T, **426**, 658
What Darwin knew, *Correspondence*, Abler, W L, **426**, 759
evolution, birds, Dinosaurs take to the air, *News and views*, Prum, R O, **421**, 323
Four-winged dinosaurs from China, *Article*, Xu, X, Zhou, Z, Wang, X, Kuang, X, Zhang, F, Du, X, **421**, 335
evolution, eukaryotes, The cytoskeleton, cellular motility and the reductionist agenda, *Insight overview*, Pollard, T D, **422**, 741
evolution, fishes, Head and backbone of the Early Cambrian vertebrate *Haikouichthys*, *Letter to Nature*, Shu, D-G, Conway Morris, S, Han, J, Zhang, Z-F, Yasui, K, Janvier, P, Chen, L, Zhang, X-L, Liu, J-N, Li, Y, Liu, H-Q, **421**, 526
Corrigendum: Contemporary fisherian life-history evolution in small salmonid populations, *Letter to Nature*, Koskinen, M T, Haugen, T O, Primmer, C R, **421**, 656
evolution, genomic, Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Pal, C, Papp, B, Hurst, L D, **421**, 496
Reply: Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Hirsh, A E, Fraser, H B, **421**, 497
Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution, Shennan, S, *Book review by* Bettinger, R L, **422**, 20
Rapid change in mouse mitochondrial DNA, *Brief communication*, Pergams, O R W, Barnes, W M, Nyberg, D, **423**, 397
evolution, human, Court rules in favour of research on Kennewick Man, *News in brief*, **421**, 202
New ages for human occupation and climatic change at Lake Mungo, Australia, *Letter to Nature*, Bowler, J M, Johnston, H, Olley, J M, Prescott, J R, Roberts, R G, Shawcross, W, Spooner, N A, **421**, 837
A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61
Human footprints in Pleistocene volcanic ash, *Brief communication*, Mietto, P, Avanzini, M, Rolandi, G, **422**, 133
Genetics to unlock secrets of our African past, *News*, Cherry, M, **422**, 460
Television review: Walking with Cavemen, Dale, R, *Book review by* Gamble, C, **422**, 473
Human evolution: Being manipulative, *News and views*, Whitfield, J, **422**, 577
Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849
Reflections on our Past: How Human History is Revealed in Our Genes, Relethford, J H, *Book review by* Cann, R, **423**, 117
The Journey of Man: A Genetic Odyssey, Wells, S, *Book review by* Cann, R, **423**, 117
Museums face prospect of giving up human remains, *News in brief*, **423**, 374
Anthropologists cast doubt on human DNA evidence, *News*, Abbott, A, **423**, 468
Human evolution: Out of Ethiopia, *News and views*, Stringer, C, **423**, 692
Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, White, T D, Asfaw, B, DeGusta, D, Gilbert, H, Richards, G D, Suwa, G, Howell, F C, **423**, 742
Stratigraphic, chronological and behavioural contexts of Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, Clark, J D, Beyene, Y, WoldeGabriel, G, Hart, W K, Renne, P R, Gilbert, H, Defleur, A, Suwa, G, Katoh, S, Ludwig, K R, Boisserie, J-R, Asfaw, B, White, T D, **423**, 747
Lowly Origin: Where, When, and Why Our Ancestors First Stood Up, Kingdon, J, *Book review by* Rook, L, **423**, 804
Were Cro-Magnons too like us for DNA to tell?, *Correspondence*, Barbujani, G, Bertorelle, G, **424**, 127
Life's Solution: Inevitable Humans in a Lonely Universe, *Book review*, Conway Morris, S, Lenski, R E, **425**, 767
Human evolution: Robust ideas, *News and views*, Gee, H, **425**, 914
evolution, mammals, Mammalian evolution: Isolationist tendencies, *News and views*, Jaeger, J-J, **426**, 509
Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549
evolution, plants, Evolution: Flowers to fit the bill, *News and views*, Whitfield, J, **423**, 30
The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901
evolution, primates, Palaeontology: Combing the primate record, *News and views*, Martin, R D, **422**, 388
Fossil evidence for an ancient divergence of lorises and galagos, *Letter to Nature*, Seiffert, E R, Simons, E L, Attia, Y, **422**, 421
evolution, progressive, Complexity may teach us a simple lesson, *Correspondence*, Sierk, M, **421**, 573
evolution, reptiles, Reptile study will add scale to evolutionary genetics, *News in brief*, **424**, 988
Ocean currents mediate evolution in islands lizards, *Letter to Nature*, Calsbeek, R, Smith, T B, **426**, 552
evolutionary biology, Evolutionary biology: Splitting in space, *News and views*, Tautz, D, **421**, 225
Speciation along environmental gradients, *Letter to Nature*, Doebeli, M, Dieckmann, U, **421**, 259
Evolutionary biology: Species, more or less, *News and views*, Whitfield, J, **422**, 33
Evolutionary biology: Teeth as tools, *News and views*, Weil, A, **422**, 128
Evolutionary biology: Asexual means of mutation control, *News and views*, Whitfield, J, **422**, 393
Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Griffith, S C, Montgomerie, R, **422**, 833
Reply: Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Blomqvist, D, Andersson, M, Küpper, C, Cuthill, I C, Kis, J, Lanctot, R B, Sandercock, B K, Székely, T, Wallander, J, Kempenaers, B, **422**, 833
Threat of closure hangs heavy over primate centre, *News*, Dalton, R, **423**, 471
Evolutionary biology: Fractious phylogenies, *News and views*, Kocher, T D, **423**, 489
Evolutionary biology: Genes to make a new species, *News and views*, Noor, M A F, **423**, 699
Evolutionary biology: Compensation claim, *News and views*, Hopkin, M, **423**, 935
Evolutionary biology: Polygamy and parenting, *News and views*, Pagel, M, **424**, 23
Evolutionary biology: Body plans and simple brains, *News and views*, Lacalli, T, **424**, 263
Evolutionary biology: Golgi traces revealed, *News and views*, Pearson, H, **424**, 1011
Evolutionary biology: Loss for profit, *News and views*, Whitfield, J, **425**, 34

  Evolutionary biology: Scramble for the eggs, *News and views*, Gage, M J G, **426**, 22
  Evolutionary biology: Spot the difference, *News and views*, Whitfield, J, **426**, 242
  See also **developmental biology**
evolutionary capacitance, Evolutionary capacitance as a general feature of complex gene networks, *Letter to Nature*, Bergman, A, Siegal, M L, **424**, 549
excitons, Ultrafast terahertz probes of transient conducting and insulating phases in an electron-hole gas, *Letter to Nature*, Kaindl, R A, Carnahan, M A, Hagele, D, Lövenich, R, Chamla, D S, **423**, 734
exhibitions, Building on nature, *Exhibition review*, Forbes, P, **425**, 241
  Unnatural causes, *Exhibition review*, Abbott, A, **425**, 347
  Exhibition: A hobbit-forming show, *Exhibition review*, Gee, H, **425**, 455
  Unnatural coverage of Chernobyl tragedy, *Correspondence*, Pergams, O R W, **425**, 763
  Force of nature, *Exhibition review*, Abbott, A, **426**, 19
  Seeing the light, *Exhibition review*, Martin, C, **426**, 387
exocytosis, Functional and spatial segregation of secretory vesicle pools according to vesicle age, *Letter to Nature*, Duncan, R R, Greaves, J, Wiegand, U K, Matskevich, I, Bodammer, G, Apps, D K, Shipston, M J, Chow, R H, **422**, 176
  The exocyst complex is required for targeting of Glut4 to the plasma membrane by insulin, *Letter to Nature*, Inoue, M, Chang, L, Hwang, J, Chiang, S-H, Saltiel, A R, **422**, 629
  Different domains of synaptotagmin control the choice between kiss-and-run and full fusion, *Letter to Nature*, Wang, C-T, Lu, J-C, Bai, J, Chang, P Y, Martin, T F J, Chapman, E R, Jackson, M B, **424**, 943
exoplanets, Astronomy: Distant planet is the hottest yet, *News and views*, Brown, T M, **421**, 488
  An extrasolar planet that transits the disk of its parent star, *Letter to Nature*, Konacki, M, Torres, G, Jha, S, Sasselov, D D, **421**, 507
  New Worlds in the Cosmos: The Discovery of Exoplanets, Mayor, M, Frei, P-Y, Roukema, B, *Book review by* Boss, A, **426**, 386
explosives, Explosives: A microsensor for trinitrotoluene vapour, *Brief communication*, Pinnaduwage, L A, Gehl, A, Hedden, D L, Muralidharan, G, Thundat, T, Lareau, R T, Sulchek, T, Manning, L, Rogers, B, Jones, M, Adams, J D, **425**, 474
extinction of memory, Extinction-induced upregulation in AMPA receptors reduces cocaine-seeking behaviour, *Letter to Nature*, Sutton, M A, Schmidt, E F, Choi, K-H, Schad, C A, Whisler, K, Simmons, D, Karanian, D A, Monteggia, L M, Neve, R L, Self, D W, **421**, 70
extinction of species, Impossible Extinction: Natural Catastrophes and the Supremacy of the Microbial World, Cockell, C C, *Book review by* Sleep, N H, **422**, 663
  Parallel extinction risk and global distribution of languages and species, *Letter to Nature*, Sutherland, W J, **423**, 276
  Rapid worldwide depletion of predatory fish communities, *Letter to Nature*, Myers, R A, Worm, B, **423**, 280
  When Life Nearly Died: The Greatest Mass Extinction of All Time, Benton, M, *Book review by* Bowler, P J, **423**, 384
  Our Final Hour: A Scientist's Warning: How Terror, Error, and Environmental Disaster Threatens Humankind's Future in the Century — On Earth and Beyond/Our Final Center: Will the Human Race Survive the Twenty-First Century?, Rees, M, *Book review by* Brownlee, D, **423**, 803
  Catastrophic extinctions follow deforestation in Singapore, *Letter to Nature*, Brook, B W, Sodhi, N S, Ng, P K L, **424**, 420
  Biologists call for tracking as mammal numbers dive, *News*, Dalton, R, **424**, 715
  Mixed results for conservation efforts leave species dying, *News in brief*, **425**, 230
  Rapid body size decline in Alaskan Pleistocene horses before extinction, *Letter to Nature*, Guthrie, R D, **426**, 169
  Expiry dates, *News and views*, Pimm, S, **426**, 235
  Flightless birds: When did the dodo become extinct?, *Brief communication*, Roberts, D L, Solow, A R, **426**, 245
  Facing up to endangered apes, *Opinion*, **426**, 369
  Meteorite impacts: Dinosaurs were not roasted, *News and views*, Ball, P, **426**, 618
extra-pair mating, Females increase offspring heterozygosity and fitness through extra-pair matings, *Letter to Nature*, Foerster, K, Delhey, K, Johnsen, A, Lifjeld, J T, Kempenaers, B, **425**, 714
extracellular matrix, The matrix, reinvented, *News feature*, Cyranoski, D, **424**, 870
  Cell biology: Tumour jailbreak, *News and views*, Yamada, K M, **424**, 889
extrasolar planets, Worlds apart, *News feature*, Falk, D, **422**, 659
extraterrestrial intelligence, In support of xeno-optimism, *Editorial*, **421**, 769
  Alien-hunters get scope to search, *News*, Whitfield, J, **422**, 249
  Astrobiology: A salty life on Europa?, *News and views*, Ball, P, **422**, 829
  NASA on board as search for intelligent life takes off again, *News in brief*, **424**, 244
extraterrestrial life, Evolving the Alien: The Science of Extraterrestrial Life, Cohen, J, Stewart, I, *Book review by* Krauss, L M, **421**, 114
Extreme Ultraviolet Explorer, High-energy astronomy: Flashes from planet smashes, *News and views*, Ball, P, **424**, 1011
extreme-ultraviolet imaging, Achromatic Fresnel optics for wideband extreme-ultraviolet and X-ray imaging, *Letter to Nature*, Wang, Y, Yun, W, Jacobsen, C, **424**, 50
extreme-ultraviolet light, Quasi-phase-matched generation of coherent extreme-ultraviolet light, *Letter to Nature*, Paul, A, Bartels, R A, Tobey, R, Green, H, Welman, S, Christov, I P, Murnane, M M, Kapteyn, H C, Backus, S, **421**, 51
Eya protein, Signal transduction: An eye on organ development, *News and views*, Epstein, J A, Neel, B G, **426**, 238
  Eya protein phosphatase activity regulates Six1-Dach-Eya transcriptional effects in mammalian organogenesis, *Article*, Li, X, Oghi, K A, Zhang, J, Krones, A, Bush, K T, Glass, C K, Nigam, S K, Aggarwal, A K, Maas, R, Rose, D W, Rosenfeld, M G, **426**, 247
eye, The retina's fancy tricks, *News and views*, Masland, R H, **423**, 387
  Nuclear cataract caused by a lack of DNA degradation in the mouse eye lens, *Letter to Nature*, Nishimoto, S, Kawane, K, Watanabe-Fukunaga, R, Fukuyama, H, Ohsawa, Y, Uchiyama, Y, Hashida, N, Ohguro, N, Tano, Y, Morimoto, T, Fukuda, Y, Nagata, S, **424**, 1071
eye movements, Action plans used in action observation, *Letter to Nature*, Flanagan, J R, Johansson, R S, **424**, 769
eye–hand coordination, Action plans used in action observation, *Letter to Nature*, Flanagan, J R, Johansson, R S, **424**, 769
***Eyeless* gene**, Signal transduction: An eye on organ development, *News and views*, Epstein, J A, Neel, B G, **426**, 238
Eyes absent protein, Eyes absent represents a class of protein tyrosine phosphatase, *Letter to Nature*, Rayapureddi, J P, Kattamuri, C, Steinmetz, B D, Frankfort, B J, Ostrin, E J, Mardon, G, Hegde, R S, **426**, 295
  The transcription factor Eyes absent is a protein tyrosine phosphatase, *Letter to Nature*, Tootle, T L, Silver, S J, Davies, E L, Newman, V, Latek, R R, Mills, I A, Selengut, J D, Parlikar, B E W, Rebay, I, **426**, 299
ezrin, Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity, *Letter to Nature*, Speck, O, Hughes, S C, Noren, N K, Kulikauskas, R M, Fehon, R G, **421**, 83

facial expression, Facial expression linked to monkey calls, *Brief communication*, Ghazanfar, A A, Logothetis, N K, **423**, 937
Fah, Transplanted bone marrow regenerates liver by cell fusion, *Letter to Nature*, Vassilopoulos, G, Wang, P-R, Russell, D W, **422**, 901
Fahey, John, AIDS scientist rapped over controversial treatment test, *News in brief*, **422**, 794
fairy-wrens, Escalation of a coevolutionary arms race through host rejection of brood parasitic young, *Letter to Nature*, Langmore, N E, Hunt, S, Kilner, R M, **422**, 157
falls, Medical technology: Balancing the unbalanced, *News and views*, Moss, F, Milton, J G, **425**, 911
familial cylindromatosis, CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members, *Letter to Nature*, Trompouki, E, Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G, **424**, 793
  Loss of the cylindromatosis tumour suppressor inhibits apoptosis by activating NF-κB, *Letter to Nature*, Brummelkamp, T R, Nijman, S M B, Dirac, A M G, Bernards, R, **424**, 797
families, The genetic basis of family conflict resolution in mice, *Letter to Nature*, Hager, R, Johnstone, R A, **421**, 533
fast-breeder reactors, India gives go-ahead for fast-breeder reactor project, *News in brief*, **425**, 114
fast-ion conductors, Synthetic design of crystalline inorganic chalcogenides exhibiting fast-ion conductivity, *Letter to Nature*, Zheng, N, Bu, X, Feng, P, **426**, 428
fast-light media, The speed of information in a 'fast-light' optical medium, *Letter to Nature*, Stenner, M D, Gauthier, D J, Nelfeld, M A, **425**, 695
fat, Microbiology: Flab control, *News and views*, Heemels, M-T, **423**, 395
fat body, Physiology: Fat body sizes fly, *News and views*, Heemels, M-T, **425**, 472
fatty acids, Microbiology: Flab control, *News and views*, Heemels, M-T, **423**, 395
fear, Neurobiology: Fear thou not, *News and views*, Dudai, Y, **421**, 325
fear conditioning, Neurobiology: Fear thou not, *News and views*, Dudai, Y, **421**, 325
feedback, Acoustics: Guitar feedback tamed, *News and views*, Ball, P, **423**, 702
feedback inhibition, Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2, *Letter to Nature*, Lorenz, K, Lohse, M J, Quitterer, U, **426**, 574
feeding behaviour, Animal behaviour: A dog's dinner, *News and views*, Heemels, M-T, **423**, 134
  Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR-α, *Letter to Nature*, Fu, J, Gaetani, S, Oveisi, F, Verme, J L, Serrano, A, Rodriguez de Fonseca, F, Rosengarth, A, Luecke, H, Di Giacomo, B, Tarzia, G, Piomelli, D, **425**, 91
feet, webbed, Delta-wing function of webbed feet gives hydrodynamic lift for swimming propulsion in birds, *Letter to Nature*, Johansson, L C, Norberg, R A, **424**, 65
femtophysics, Femtophysics: Birth of a quasiparticle, *News and views*, Leitenstorfer, A, **426**, 23
  The birth of a quasiparticle in silicon observed in time-frequency space, *Letter to Nature*, Hase, M, Kitajima, M, Constantinescu, A M, Petek, H, **426**, 51
Fermi gases, Creation of ultracold molecules from a Fermi gas of atoms, *Letter to Nature*, Regal, C A, Ticknor, C, Bohn, J L, Jin, D S, **424**, 47
  Emergence of a molecular Bose–Einstein condensate from a Fermi gas, *Letter to Nature*, Greiner, M, Regal, C A, Jin, D S, **426**, 537
Fermi liquids, Fermi-liquid breakdown in the paramagnetic phase of a pure metal, *Letter to Nature*, Doiron-Leyraud, N, Walker, I R, Taillefer, L, Steiner, M J, Julian, S R, Lonzarich, G G, **425**, 595
  Direct observation of Tomonaga-Luttinger-liquid state in carbon nanotubes at low temperatures, *Letter to Nature*, Ishii, H, Kataura, H, Shiozawa, H, Yoshioka, H, Otsubo, H, Takayama, Y, Miyahara, T, Suzuki, S, Achiba, Y, Nakatake, M, Narimura, T, Higashiguchi, M, Shimada, K, Namatame, H, Taniguchi, M, **426**, 540
Fermi surface, A coherent three-dimensional Fermi surface in a high-transition-temperature superconductor, *Letter to Nature*, Hussey, N E, Abdel-Jawad, M, Carrington, A, MacKenzie, A P, Balicas, L, **425**, 814
Fermilab, Fermilab digs deep in bid to study neutrinos, *News in brief*, **424**, 869
fermions, Condensed-matter physics: Really cool molecules, *News and views*, Julienne, P S, **424**, 24
  Condensed-matter physics: Singular behaviour, *News and views*, Fisk, Z, **424**, 504
  Emergence of a molecular Bose-Einstein condensate from a Fermi gas, *Letter to Nature*, Greiner, M, Regal, C A, Jin, D S, **426**, 537
ferns, Responses of ferns to red light are mediated by an unconventional photoreceptor, *Letter to Nature*, Kawai, H, Kanegae, T, Christensen, S, Kiyosue, T, Sato, Y, Imaizumi, T, Kadota, A, Wada, M, **421**, 287
ferrets, SARS virus infection of cats and ferrets, *Brief communication*, Martina, B E E, Haagmans, B L, Kuiken, T, Fouchier, R A M, Rimmelzwaan, G F, van Amerongen, G, Peiris, J S M, Lim, W, Osterhaus, A D M E, **425**, 915
ferroelectrics, Critical thickness for ferroelectricity in perovskite ultrathin films, *Letter to Nature*, Junquera, J, Ghosez, P, **422**, 506
  Magnetic control of ferroelectric polarization, *Letter to Nature*, Kimura, T, Goto, T, Shintani, H, Ishizaka, K, Arima, T, Tokura, Y, **426**, 55
ferromagnetism, Beating the superparamagnetic limit with exchange bias, *Letter to Nature*, Skumryev, V, Stoyanov, S, Zhang, Y, Hadjipanayis, G, Givord, D, Nogués, J, **423**, 850
fertility, Antinori makes a meal of hunger-strike claim, *News in brief*, **421**, 466
fertilization, Ecology: Is fertilization efficiency misleading?, *Brief communication*, Hafner, S D, **422**, 397
  Reply: Ecology: Is fertilization efficiency misleading?, *Brief communication*, Tilman, D, Cassman, K G, Matson, P A, Naylor, R, Polasky, S, **422**, 398
  Reproduction: Being compatible, *News and views*, Pilcher, H R, **425**, 678
fertilizers, The oresmen, *News feature*, Schiermeier, Q, **421**, 109
  GreenSea's interest in fertilizing sea with iron, *Correspondence*, Rice, M L, **421**, 786
  Fertilized to death, *News feature*, Nosengo, N, **425**, 894
fetal cell transplants, Fetal trials need public funds, *Opinion*, **424**, 981
  Parkinson's transplant therapy faces setback, *News*, Check, E, **424**, 987
Feynman, Richard, Feynman put a personal spin on physics, *Correspondence*, Nickalls, R W D, **425**, 343
Fibonacci numbers, Plant development: Leaves by number, *News and views*, Surridge, C, **426**, 237
fibre optics, Fibre optics: Surgery by sunlight on live animals, *Brief communication*, Gordon, J M, Feuermann, D, Huleihil, M, Mizrahi, S, Shaco-Levy, R, **424**, 510
  Fibre-optical features of a glass sponge, *Brief communication*, Sundar, V C, Yablon, A D, Grazul, J L, Ilan, M, Aizenberg, J, **424**, 899
fibroblast growth factor, Developmental regulation of the growth plate, *Insight review article*, Kronenberg, H M, **423**, 332
fibroin, Mechanism of silk processing in insects and spiders, *Letter to Nature*, Jin, H-J, Kaplan, D L, **424**, 1057
fibronectin, Pathogenic bacteria attach to human fibronectin through a tandem β-zipper, *Letter to Nature*, Schwarz-Linek, U, Werner, J M, Pickford, A R, Gurusiddappa, S, Kim, J H, Pilka, E S, Briggs, J A G, Gough, T S, Höök, M, Campbell, I D, Potts, J R, **423**, 177
  Fibronectin requirement in branching morphogenesis, *Letter to Nature*, Sakai, T, Larsen, M, Yamada, K M, **423**, 876
  Two-piconewton slip bond between fibronectin and the cytoskeleton depends on talin, *Letter to Nature*, Jiang, G, Glannone, G, Critchley, D R, Fukumoto, E, Sheetz, M P, **424**, 334
field sports, Field sports and conservation in the United Kingdom, *Letter to Nature*, Oldfield, T E E, Smith, R J, Harrop, S R, Leader-Williams, N, **423**, 531
field-effect doping, Retraction: Superconductivity in $CaCuO_2$ as a result of field-effect doping, *Letter to Nature*, Schön, J H, Dorget, M, Beuran, F C, Zu, X Z, Arushanov, E, Deville Cavellin, C, Laguës, M, **422**, 92
field-effect transistors, Retraction: Self-assembled monolayer organic field-effect transistors, *Letter to Nature*, Schön, J H, Meng, H, Bao, Z, **422**, 92
  Ballistic carbon nanotube field-effect transistors, *Letter to Nature*, Javey, A, Guo, J, Wang, Q, Lundstrom, M, Dai, H, **424**, 654
  Electric field effect in correlated oxide systems, *Progress article*, Ahn, C H, Triscone, J-M, Mannhart, J, **424**, 1015
  Understanding and tuning the epitaxy of large aromatic adsorbates by molecular design, *Letter to Nature*, Eremtchenko, M, Schaefer, J A, Tautz, F S, **425**, 602
filopodia, Delta-promoted filopodia mediate long-range lateral inhibition in *Drosophila*, *Letter to Nature*, de Joussineau, C, Soule, J, Martin, M, Anguille, C, Montcourrier, P, Alexandre, D, **426**, 555
financial markets, A theory of power-law distributions in financial market fluctuations, *Letter to Nature*, Gabaix, X, Gopikrishnan, P, Pierou, V, Stanley, H E, **423**, 267

fireballs, Catch a falling star, *News and views*, Drummond, J, **423**, 123
fires, Burning issues, *News feature*, Dennis, C, **421**, 204
  Ecologists count cost as wildfire ravages research station, *News in brief*, **424**, 480
fisheries, Fishermen battered by scale of fish quota, *News in brief*, **421**, 6
  Daniel Pauly, *Lifelines*, **421**, 23
  Europe dithers as Canada cuts cod fishing, *News*, Schiermeier, Q, **423**, 212
  Panel calls for sea change to fisheries policy, *News*, Gewin, V, **423**, 577
  Fish farms' threat to salmon stocks exposed, *News*, Schiermeier, Q, **425**, 753
  Eat your veg, *News feature*, Powell, K, **426**, 378
  Plankton effect on cod recruitment in the North Sea, *Letter to Nature*, Beaugrand, G, Brander, K M, Lindley, J A, Souissi, S, Reid, P C, **426**, 661
fishes, A zebrafish homologue of the chemokine receptor *Cxcr4* is a germ-cell guidance receptor, *Letter to Nature*, Knaut, H, Werz, C, Geisler, R, Busch-Nentwich, E, Dahm, R, Frohnhofer, H-G, Geiger, H, Gilmour, D, Holley, S, Hooge, J, Julich, D, Maderspacher, F, Maischein, H-M, Neumann, C, Nicolson, T, Roehl, H, Schonberger, U, Seiler, C, Sollner, C, Sonawane, M, van Bebber, F, Wehner, A, Weiler, C, Erkert, P, Habeck, H, Hagner, U, Hennen Kaps, C E, Kirchner, A, Koblizek, T, Langheinrich, U, Loeschke, C, Metzger, C, Nordin, R, Odenthal, J, Pezzuti, M, Schlombs, K, deSantana-Stamm, J, Trowe, T, Vacun, G, Walderich, B, Walker, A, Weiler, C, Nusslein-Volhard, C, **421**, 279
  Coral Reef Fishes: Diversity and Dynamics in a Complex Ecosystem, Sale, P, *Book review by* Bshary, R, **421**, 317
  Directional postcopulatory sexual selection revealed by artificial insemination, *Letter to Nature*, Evans, J P, Zane, L, Francescato, S, Pilastro, A, **421**, 360
  Marine ecology: Fish that go to the cleaners, *News and views*, Whitfield, J, **421**, 493
  Patagonian toothfish found off Greenland, *Brief communication*, Møller, P R, Nielsen, J G, Fossen, I, **421**, 599
  Patterns and processes in reef fish diversity, *Letter to Nature*, Mora, C, Chittaro, P M, Sale, P F, Kritzer, J P, Ludsin, S A, **421**, 933
  Wise fathers, *News and views*, Reynolds, J D, Sheldon, B C, **422**, 669
  Decisions about parental care in response to perceived paternity, *Letter to Nature*, Neff, B D, **422**, 716
  Atlantic cod meet icy death, *News*, Hoag, H, **422**, 792
  Stealth ship sets sail for a quiet life fishing for data, *News*, Moore, J, **423**, 7
  Anglers face the painful truth, *News in brief*, **423**, 8
  Evolutionary biology: Fractious phylogenies, *News and views*, Kocher, T D, **423**, 489
  Developmental biology: Fish in pinstripe suits, *News and views*, Heemels, M-T, **424**, 143
  Size and growth modification on clownfish, *Brief communication*, Buston, P, **424**, 145
  Marine survey sees net gain in number of fish species, *News*, Mason, B, **425**, 889
  Doubts swirl around plan to use rigs as reefs, *News*, Mason, B, **425**, 891
fishes, biodiversity, Explaining the excess of rare species in natural species abundance distributions, *Letter to Nature*, Magurran, A E, Henderson, P A, **422**, 714
fishes, evolution, Head and backbone of the Early Cambrian vertebrate *Haikouichthys*, *Letter to Nature*, Shu, D-G, Conway Morris, S, Han, J, Zhang, Z-F, Yasui, K, Janvier, P, Chen, L, Zhang, X-L, Liu, J-N, Li, Y, Liu, H-Q, **421**, 526
  Migration of a Late Cretaceous fish, *Letter to Nature*, Carpenter, S J, Erickson, J M, Hollan Jr, F D, **423**, 70
fishes, feeding, Eat your veg, *News feature*, Powell, K, **426**, 378
  Plankton effect on cod recruitment in the North Sea, *Letter to Nature*, Beaugrand, G, Brander, K M, Lindley, J A, Souissi, S, Reid, P C, **426**, 661
fishes, fluorescent, GloFish casts light on murky policing of transgenic animals, *News*, Knight, J, **426**, 372
fishes, fossil, Migration of a Late Cretaceous fish, *Letter to Nature*, Carpenter, S J, Erickson, J M, Hollan Jr, F D, **423**, 70
  A larval Devonian lungfish, *Letter to Nature*, Thomson, K S, Sutton, M, Thomas, B, **426**, 833
fishes, population genetics, Corrigendum: Contemporary fisherian life-history evolution in small salmonid populations, *Letter to Nature*, Koskinen, M T, Haugen, T O, Primmer, C R, **421**, 656
fishes, predatory, Rapid worldwide depletion of predatory fish communities, *Letter to Nature*, Myers, R A, Worm, B, **423**, 280
fishes, survival, Marine ecology: Spring algal bloom and larval fish survival, *Brief communication*, Platt, T, Fuentes-Yaco, C, Frank, K T, **423**, 398
fishes, tails, A tale of tails, *News and views*, Niehrs, C, **424**, 375
  The molecular nature of the zebrafish tail organizer, *Letter to Nature*, Agathon, A, Thisse, C, Thisse, B, **424**, 448
fishes, transgenic, Transgenic salmon still out in the cold in United States, *News*, Hoag, H, **421**, 304
  Objective assessment of transgenic salmon, *Correspondence*, Gray, G, **421**, 889
fishing, Europe bans deep-sea trawling to save coral, *News in brief*, **424**, 988
  In a Perfect Ocean, Pauly, D, Maclean, J, *Book review by* Shepherd, J, **425**, 125
FitzRoy, Robert, Evolution's Captain: The Tragic Fate of Robert FitzRoy, the Man who Sailed Charles Darwin Around the World, Nichols, P, *Book review by* Thomson, K, **425**, 18
  FitzRoy: The Remarkable Story of Darwin's Captain and the Invention of the Weather Forecast, Gribbin, J, Gribbin, M, *Book review by* Thomson, K, **425**, 18
FKF1, FKF1 is essential for photoperiodic-specific light signalling in *Arabidopsis*, *Letter to Nature*, Imaizumi, T, Tran, H G, Swartz, T E, Briggs, W R, Kay, S A, **426**, 302
flagellae, Complete atomic model of the bacterial flagellar filament by electron cryomicroscopy, *Article*, Yonekura, K, Makl-Yonekura, S, Namba, K, **424**, 643
flat screen displays, Bendy screens and wobbly world win European award, *News in brief*, **426**, 376
flavanols, Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Schroeter, H, Holt, R R, Orozco, T J, Schmitz, H H, Keen, C L, **426**, 787
  Reply: Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Serafini, M, Crozier, A, **426**, 788
fleas, Astronomy: Black holes, fleas and microlithography, *Brief communication*, Skinner, G, Gorenstein, P, **426**, 245
flies, A fly in the biogeographic ointment, *Brief communication*, Ashworth, A C, Thompson, F C, **423**, 135
  Vision: In the eye of the beholder, *News and views*, Whitfield, J, **425**, 678
  Neurobiology: Amnesia in ageing flies, *News and views*, Heemels, M-T, **426**, 784
flight, Dinosaurs take to the air, *News and views*, Prum, R O, **421**, 323
  Frigatebirds ride high on thermals, *Brief communication*, Weimerskirch, H, Chastel, O, Barbraud, C, Tostain, O, **421**, 333
  Four-winged dinosaurs from China, *Article*, Xu, X, Zhou, Z, Wang, X, Kuang, X, Zhang, F, Du, X, **421**, 335
  Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363
  Flying into history, *Correspondence*, Schmidhuber, J, **421**, 689
  Leonardo lifts off, *Science in culture*, Kemp, M, **421**, 792
  Heads in the clouds, *News in brief*, **424**, 8
  Flying and swimming animals cruise at a Strouhal number tuned for high-power efficiency, *Letter to Nature*, Taylor, G K, Nudds, R L, Thomas, A L R, **425**, 707
  Neuroanatomy of flying reptiles and implications for flight, posture and behaviour, *Letter to Nature*, Witmer, L M, Chatterjee, S, Franzosa, J, Rowe, T, **425**, 950
flight, powered, The Wright Brothers and the Invention of the Aerial Eagle, Crouch, T, Jakab, P L, *Book review by* Nahum, A, **426**, 765
floods, Severe summertime flooding Europe, *Brief communication*, Christensen, J H, Christensen, O B, **421**, 805
  Delta blues, *News feature*, Clarke, T, **422**, 254
  Save our city!, *News feature*, Nosengo, N, **424**, 608
  Analysis pours cold water on flood theory, *News*, Schiermeier, Q, **425**, 111
  No upward trends in the occurrence of extreme floods in central Europe, *Letter to Nature*, Mudelsee, M, Borngen, M, Teztlaff, G, Grunewald, U, **425**, 166
  Plant biology: Water gate, *News and views*, Holbrook, N M, Zwieniecki, M A, **425**, 361
  Floods of record, *News and views*, Paola, C, **425**, 459
  Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation, *Letter to Nature*, Aalto, R, Maurice-Bourgoin, L, Dunne, T, Montgomery, D R, Nittrouer, C A, Guyot, J-L, **425**, 493
  Effective protection may alter the look of Venice, *Correspondence*, Stanley, J-D, **425**, 661
flow, Measuring intense rotation and dissipation in turbulent flows, *Letter to Nature*, Zeff, B W, Lanterman, D D, McAllister, R, Roy, R, Kostelich, E J, Lathrop, D P, **421**, 146
  Kinematics: Wide shear zones in granular bulk flow, *Brief communication*, Fenistein, D, van Hecke, M, **425**, 256
flowers, Pollinator attraction: Crab-spiders manipulate flower signals, *Brief communication*, Heiling, A M, Herberstein, M E, Chittka, L, **421**, 334
  Evolution: Flowers to fit the bill, *News and views*, Whitfield, J, **423**, 30
  Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers, *Letter to Nature*, Bradshaw, H D, Schemske, D, **426**, 176
fluence, Astronomy: The long and the short of it, *News and views*, Clarke, T, **422**, 33
fluid dynamics, Fluid dynamics: Turbulence made hard, *News and views*, Ball, P, **421**, 597
  Fluid dynamics: How to crack a liquid, *News and views*, Ball, P, **423**, 395
  Fluid dynamics: Vortex rings in a constant electric field, *Brief communication*, Grier, D G, **424**, 267
  An intrinsic velocity-independent criterion for superfluid turbulence, *Letter to Nature*, Finne, A P, Araki, T, Blaauwgeers, R, Eltsov, V B, Kopnin, N B, Krusius, M, Skrbek, L, Tsubota, M, Volovik, G E, **424**, 1022
  Fluid dynamics: Jet-bending explained, *News and views*, Ball, P, **425**, 678
fluid mechanics, Intracardiac fluid forces are an essential epigenetic factor for embryonic cardiogenesis, *Letter to Nature*, Hove, J R, Koster, R W, Forouhar, A S, Acevedo-Bolton, G, Fraser, S E, Gharib, M, **421**, 172
fluids, Materials science: Bursting apart, *News and views*, Kadanoff, L P, **421**, 124
fluorescence localization after photobleaching, Cell biology: Fast-track for actin, *News and views*, Bucci, M, **422**, 577
fluorophores, Cell biology: Enlightened messages, *News and views*, Thomas, C, **426**, 27
Förster resonance energy transfer, Corrigendum: Probing the free-energy surface for protein folding with dingle-molecule fluorescence spectroscopy, *Letter to Nature*, Schuler, B, Lipman, E A, Eaton, W A, **421**, 94
focus groups, GM-debate methodology works in the real world, *Correspondence*, Grove-White, R, **426**, 495
food poisoning, When Food Kills: BSE, *E. coli* and Disaster Science, Pennington, H, *Book review by* Rubery, E, **425**, 561
food safety, Food safety comes to the fore, *News*, Brumfiel, G, Hoag, H, **421**, 565
food technology, Diversity in food technology, *Opinion*, **424**, 473
  Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15
food webs, Universal scaling relations in food webs, *Letter to Nature*, Garlaschelli, D, Caldarelli, G, Pietronero, L, **423**, 165
  In a Perfect Ocean, Pauly, D, Maclean, J, *Book review by* Shepherd, J, **425**, 125
  Compartments revealed in food-web structure, *Letter to Nature*, Krause, A E, Frank, K A, Mason, D M, Ulanowicz, R E, Taylor, W W, **426**, 282
foot and mouth disease, Agriculture shock, *News feature*, Gewin, V, **421**, 106
  Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
  'Low risk' of infection from smuggled meat, *News in brief*, **422**, 366
foraging, Spontaneous emergence of leaders and followers in foraging pairs, *Letter to Nature*, Rands, S A, Cowlishaw, G, Pettifor, R A, Rowcliffe, J M, Johnstone, R A, **423**, 432
foraminifera, Palaeoceanographic implications of genetic variation in living North Atlantic *Neogloboquadrina pachyderma*, *Letter to Nature*, Bauch, D, Darling, K, Simstich, J, Bauch, H A, Erienkeuser, H, Kroon, D, **424**, 299
foreign researchers, Congressmen unmoved by foreigners' plight, *News*, Brumfiel, G, **422**, 457
  Researchers rage at tightened restrictions on US immigration, *News*, Brumfiel, G, **422**, 457
  Physicist discouraged by heightened security, *News*, Brumfiel, G, **422**, 458
  US visa problems curb rise in foreign students, *News in brief*, **424**, 362
  Foreign students to foot the bill for US security scheme, *News in brief*, **425**, 892
  US loses allure in foreign students' eyes, *News*, Brumfiel, G, **426**, 5
forensic science, Error reports threaten to unravel databases of mitochondrial DNA, *News*, Dennis, C, **421**, 773
  The lab arm of the law, *News feature*, Giles. J, **422**, 13
  Congo massacre probe enlists forensic team, *News in brief*, **422**, 794
  Back from the dead, *News feature*, Adam, D, **423**, 13
forest ecosystems, Foundations of Tropical Forest Biology: Classic Papers with Commentaries, Chazdon, R L, Whitmore, T C, *Book review by* Zagt, R J, **421**, 20
  Corrigendum: Altered performance of forest pests under atmospheres enriched by CO_2 and O_3, *Letter to Nature*, Percy, K E, Awmack, C S, Lindroth, R L, Kubiske, M E, Kopper, B J, Isebrands, J G, Pregitzer, K S, Hendrey, G R, Dickson, R E, Zak, D R, Oksanen, E, Sober, J, Harrington, R, Karnosky, D F, **421**, 190
  Increased CO_2 uncouples growth from isoprene emission in an agriforest ecosystem, *Letter to Nature*, Rosenstiel, T N, Potosnak, M J, Griffin, K L, Fall, R, Monson, R K, **421**, 256
  Fire science for rainforests, *Review article*, Cochrane, M A, **421**, 913
  Stability of forest biodiversity, *Letter to Nature*, Clark, J S, McLachlan, J S, **423**, 635
  Ecology: Mycorrhizal weathering in base-poor forests, *Brief communication*, Watmough, S A, Dillon, P J, **423**, 823
  Reply: Ecology: Mycorrhizal weathering in base-poor forests, *Brief communication*, Blum, J D, Klaue, A, Nezat, C A, Driscoll, T, Johnson, C E, Siccama, T G, Eagar, C, Fahey, T J, Likens, G E, **423**, 824
  A Magic Web, Leigh Jr, E G, Ziegler, C, *Book review by* Sack, L, Dechmann, D, **424**, 132
  Ecology: Human past and forest present, *News and views*, Whitfield, J, **425**, 143
  Corrigendum: Invariant scaling relations across tree-dominated communities, *Letter to Nature*, Enquist, B J, Niklas, K J, **425**, 741
  Fertilized to death, *News feature*, Nosengo, N, **425**, 894
forest fires, Fire science for rainforests, *Review article*, Cochrane, M A, **421**, 913
  Zoologists prime traps for California wildlife survey, *News*, Knight, J, **424**, 987
  Fungus work flourishes in ashes of forest fires, *News in brief*, **425**, 8
  California fires close labs as grant hopefuls get fingers burned, *News in brief*, **426**, 8
forests, deciduous, Carbon loss by deciduous trees in a CO_2-rich ancient polar environment, *Letter to Nature*, Royer, D L, Osborne, C P, Beerling, D J, **424**, 60
forests, tropical, Ecology: Shady deals with lichens, *News and views*, Moore, P D, **421**, 591
forkhead proteins, MDC1 is required for the intra-S-phase DNA damage checkpoint, *Letter to Nature*, Goldberg, M, Stucki, M, Falck, J, D'Amours, D, Rahman, D, Pappin, D, Bartek, J, Jackson, S P, **421**, 952
  MDC1 is coupled to activated CHK2 in mammalian DNA damage response pathways, *Letter to Nature*, Lou, Z, Minter-Dykhouse, K, Wu, X, Chen, J, **421**, 957

MDC1 is a mediator of the mammalian DNA damage checkpoint, *Letter to Nature*, Stewart, G S, Wang, B, Bignell, C R, Taylor, A M R, Elledge, S J, **421**, 961

form, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123

Growth dynamics underlying petal shape and asymmetry, *Letter to Nature*, Rolland-Lagan, A-G, Bangham, J A, Coen, E, **422**, 161

Former Soviet Union, Arctic clean-up project aims to confront Soviet pollution legacy, *News in brief*, **425**, 892

fossil fuels, The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, Berner, R A, **426**, 323

Understanding the thermal evolution of deep-water continental margins, *Insight review article*, White, N, Thompson, M, Barwise, T, **426**, 334

Biological activity in the deep subsurface and the origin of heavy oil, *Insight review article*, Head, I M, Jones, D M, Larter, S R, **426**, 344

fossils, Single of origin of Malagasy Carnivora from an African ancestor, *Letter to Nature*, Yoder, A D, Burns, M M, Zehr, S, Delefosse, T, Veron, G, Goodman, S M, Flynn, J J, **421**, 734

An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807

Earliest known crown-group salamanders, *Letter to Nature*, Gao, K-Q, Shubin, N H, **422**, 424

Life on a Young Planet: The First Three Billion Years of Evolution on Earth, Knoll, A H, *Book review by* Bengtson, S, **423**, 481

Setting the record straight, *News feature*, Schiermeier, Q, **424**, 482

Hot tempers, hard core, *News feature*, Dalton, R, **425**, 13

The oldest articulated chondrichthyan from the Early Devonian period, *Letter to Nature*, Miller, R F, Cloutier, R, Turner, S, **425**, 501

Palaeontology: Preserved organs of Devonian harvestmen, *Brief communication*, Dunlop, J A, Anderson, L I, Kerp, H, Hass, H, **425**, 916

fossils, birds, Dinosaurs take to the air, *News and views*, Prum, R O, **421**, 323

Four-winged dinosaurs from China, *Article*, Xu, X, Zhou, Z, Wang, X, Kuang, X, Zhang, F, Du, X, **421**, 335

Extreme reversed sexual size dimorphism in the extinct New Zealand moa Dinornis, *Letter to Nature*, Bunce, M, Worthy, T H, Ford, T, Hoppitt, W, Willerslev, E, Drummond, A, Cooper, A, **425**, 172

Nuclear DNA sequences detect species limits in ancient moa, *Letter to Nature*, Huynen, L, Millar, C D, Scofield, R P, Lambert, D M, **425**, 175

fossils, eggs, Palaeontology: Going to work on an egg, *News and views*, Lincoln, T, **421**, 597

fossils, fishes, Migration of a Late Cretaceous fish, *Letter to Nature*, Carpenter, S J, Erickson, J M, Hollan Jr, F D, **423**, 70

A larval Devonian lungfish, *Letter to Nature*, Thomson, K S, Sutton, M, Thomas, B, **426**, 833

fossils, horses, Rapid body size decline in Alaskan Pleistocene horses before extinction, *Letter to Nature*, Guthrie, R D, **426**, 169

fossils, human, Human evolution: Being manipulative, *News and views*, Whitfield, J, **422**, 577

Human evolution: Out of Ethiopia, *News and views*, Stringer, C, **423**, 692

Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, White, T D, Asfaw, B, DeGusta, D, Gilbert, H, Richards, G D, Suwa, G, Howell, F C, **423**, 742

Stratigraphic, chronological and behavioural contexts of Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, Clark, J D, Beyene, Y, WoldeGabriel, G, Hart, W K, Renne, P R, Gilbert, H, Defleur, A, Suwa, G, Katoh, S, Ludwig, K R, Boisserie, J-R, Asfaw, B, White, T D, **423**, 747

Lowly Origin: Where, When, and Why Our Ancestors First Stood Up, Kingdon, J, *Book review by* Rook, L, **423**, 804

Portrait of the Artist as a Child: The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context, Zilhao, J, Trinkaus, E, *Book review by* Bahn, P, **424**, 490

Human evolution: Robust ideas, *News and views*, Gee, H, **425**, 914

Bone archives face prospect of dispersal, *News*, Giles, J, **426**, 109

Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Faupl, P, Richter, W, Urbanek, C, **426**, 621

Reply: Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Hart, W K, WoldeGabriel, G, Katoh, S, Renne, P R, Suwa, G, Asfaw, B, White, T D, **426**, 622

fossils, insects, A fly in the biogeographic ointment, *Brief communication*, Ashworth, A C, Thompson, F C, **423**, 135

fossils, mammals, An Arctic mammal fauna from the Early Pliocene of North America, *Letter to Nature*, Tedford, R H, Harington, C R, **425**, 388

Mammalian evolution: Isolationist tendencies, *News and views*, Jaeger, J-J, **426**, 509

Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549

fossils, plants, Constant elevation of southern Tibet over the past 15 million years, *Letter to Nature*, Spicer, R A, Harris, N B W, Widdowson, M, Herman, A B, Guo, S, Valdes, P J, Wolfe, J A, Kelley, S P, **421**, 622

Palaeontology: Swimming sperm in an extinct Gondwanan plant, *Brief communication*, Nishida, H, Pigg, K B, Rigby, J F, **422**, 396

Ice-age steppe vegetation in east Beringia, *Brief communication*, Zazula, G D, Froese, D G, Schweger, C E, Mathewes, R W, Beaudoin, A B, Telka, A M, Harington, C R, Westgate, J A, **423**, 603

Palaeobotany: Fishing for the first plants, *News and views*, Kenrick, P, **425**, 248

Fragments of the earliest land plants, *Letter to Nature*, Wellman, C H, Osteloff, P L, Mohiuddin, U, **425**, 282

fossils, trees, The missing link in Ginkgo evolution, *Brief communication*, Zhou, Z, Zheng, S, **423**, 821

Carbon loss by deciduous trees in a CO_2-rich ancient polar environment, *Letter to Nature*, Royer, D L, Osborne, C P, Beerling, D J, **424**, 60

Foundation for Innovative New Diagnostics (FIND), Diagnostic drive aims to combat killer diseases, *News in brief*, **423**, 472

fowl, Evolutionary biology: Scramble for the eggs, *News and views*, Gage, M J G, **426**, 22

Sophisticated sperm allocation in male fowl, *Letter to Nature*, Pizzari, T, Cornwallis, C K, Levile, H, Jakobsson, S, Birkhead, T R, **426**, 70

fox hunting, Ecology: Hunting and fox numbers in the United Kingdom, *Brief communication*, Aebischer, N J, Baker, S E, Johnson, P J, Macdonald, D W, Reynolds, J C, **423**, 400

Reply: Ecology: Hunting and fox numbers in the United Kingdom, *Brief communication*, Baker, P J, Harris, S, Webbon, C C, **423**, 400

Field sports and conservation in the United Kingdom, *Letter to Nature*, Oldfield, T E E, Smith, R J, Harrop, S R, Leader-Williams, N, **423**, 531

FOXO1, Insulin-regulated hepatic gluconeogenesis through FOXO1-PGC-1α interaction, *Letter to Nature*, Puigserver, P, Rhee, J, Donovan, J, Walkey, C J, Yoon, J C, Oriente, F, Kitamura, Y, Altomonte, J, Dong, H, Accili, D, Spiegelman, B M, **423**, 550

fractures, Materials science: Close-up on cracks, *News and views*, Fineberg, **426**, 131

Hyperelasticity governs dynamic fracture at a critical length scale, *Article*, Buehler, M J, Abraham, F F, Gao, H, **426**, 141

fragile X mental retardation protein, Neurobiology: Wiring the brain, *News and views*, Pearson, H, **423**, 935

frame-dragging, Unstoppable force, *News feature*, Reichhardt, T, **426**, 380

France, French minister breaks diplomatic ice with visit to US, *News*, Brumfiel, G, **422**, 551

France and Japan lock horns in battle to host research reactor, *News*, Butler, D, **426**, 483

France, CNES, France purges space programme in bid to survive budget crisis, *News*, Butler, D, **423**, 103

France, IFREMER, Deep-sea sub aims to get to the bottom of a muddy issue, *News*, Schiermeier, Q, **423**, 469

France, politics, All change at the top for French research, *News in brief*, **424**, 606

France, research funding, A chance for change in France, *Opinion*, **423**, 1

French researchers demand radical overhaul of funding, *News*, Butler, D, **423**, 6

France, transgenic crops, Ministers back gene-crop advisers, *News*, Butler, D, **421**, 775

France, universities, Paris university blasted over Israel motion, *News*, Butler, D, **421**, 200

Franklin, Rosalind, DNA discrepancy, *Correspondence*, May, A, **421**, 210

The double helix and the 'wronged heroine', *Feature*, Maddox, B, **421**, 407

Court studies biology papers in row over title, *News in brief*, **423**, 578

Despite Franklin's work, Wilkins earned his Nobel, *Correspondence*, Zallen, D T, **425**, 15

free access, *See* open access

free choice, Freedom evolves, Dennett, D, *Book review by* Konner, M, **423**, 17

free fatty acids, Free fatty acids regulate insulin secretion from pancreatic β cells through GRP40, *Letter to Nature*, Itoh, Y, Kawamata, Y, Harada, M, Kobayashi, M, Fujii, R, Fukusumi, S, Ogi, K, Hosoya, M, Tanaka, Y, Uejima, H, Tanaka, H, Maruyama, M, Satoh, R, Okubo, S, Kizawa, H, Komatsu, H, Matsumura, F, Noguchi, Y, Shinohara, T, Hinuma, S, Fujisawa, Y, Fujino, M, **422**, 173

free trade, A necessary setback for world trade, *Opinion*, **425**, 223

freezes, Crop freezes and land-use change in Florida, *Brief communication*, Marshall, C H, Pielke Sr, R A, Steyaert, L T, **426**, 29

frequency modulation, Topography and synaptic shaping of direction selectivity in primary auditory cortex, *Letter to Nature*, Zhang, L I, Tan, A Y Y, Schreiner, C E, Merzenich, M M, **424**, 201

Fresnel optics, Achromatic Fresnel optics for wideband extreme-ultraviolet and X-ray imaging, *Letter to Nature*, Wang, Y, Yun, W, Jacobsen, C, **424**, 50

friction, Mechanics: Friction in spin, *News and views*, Halsey, T C, **424**, 1005

Feynman put a personal spin on physics, *Correspondence*, Nickalls, R W D, **425**, 343

Friend, Richard, Bendy screens and wobbly world win European award, *News in brief*, **426**, 376

frigatebirds, Frigatebirds ride high on thermals, *Brief communication*, Weimerskirch, H, Chastel, O, Barbraud, C, Tostain, O, **421**, 333

Fringe proteins, Periodic Notch inhibition by Lunatic Fringe underlies the chick segmentation clock, *Letter to Nature*, Dale, J K, Maroto, M, Dequeant, M L, Malapert, P, McGrew, M, Pourquie, O, **421**, 275

froghoppers, Froghopper insects leap to new heights, *Brief communication*, Burrows, M, **424**, 509

frogs, The coelacanth of frogs, *News and views*, Hedges, S B, **425**, 669

New frog family from India reveals an ancient biogeographical link with the Seychelles, *Letter to Nature*, Biju, S D, Bossuyt, F, **425**, 711

frontal cortex, Selective gating of visual signals by microstimulation of frontal cortex, *Letter to Nature*, Moore, T, Armstrong, K M, **421**, 370

frost, Plant biology: Ice on top, *News and views*, Hemmels, M-T, **422**, 677

frozen light, Quantum optics: Light at a standstill, *News and views*, Scully, M O, **426**, 610

frustration, Magic moments, *Concepts*, Ramirez, A P, **421**, 483

frustules, Architecture and material properties of diatom shells provide effective mechanical protection, *Letter to Nature*, Hamm, C E, Merkel, R, Springer, O, Jurkojc, P, Maier, C, Prechtel, K, Smetacek, V, **421**, 841

FtsZ protein, Plant cell biology: Ancients rings, *News and views*, Surridge, C, **422**, 275

fuels, Hydrocarbons and the evolution of human culture, *Insight commentary*, Hall, C, Tharakan, P, Hallock, J, Cleveland, C, Jefferson, M, **426**, 318

The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, Berner, R A, **426**, 323

Organic-inorganic interactions in petroleum-producing sedimentary basins, *Insight review article*, Seewald, J S, **426**, 327

Understanding the thermal evolution of deep-water continental margins, *Insight review article*, White, N, Thompson, M, Barwise, T, **426**, 334

Biological activity in the deep subsurface and the origin of heavy oil, *Insight review article*, Head, I M, Jones, D M, Larter, S R, **426**, 344

Fundamental principles and applications of natural gas hydrates, *Insight review article*, Sloan Jr, E D, **426**, 353

fullerenes, Atomic imaging: Like peas in a 'nanopod', *News and views*, Gerstner, E, **421**, 804

Retraction: Superconductivity in single crystals of the fullerene C70, *Letter to Nature*, Schön, J H, Kloc, Ch, Siegrist, T, Steigerwald, M, Svensson, C, Batlogg, B, **422**, 92

Retraction: Superconductivity at 52 K in hole-doped C60, *Letter to Nature*, Schön, J H, Kloc, Ch, Batlogg, B, **422**, 93

Controlling molecular desposition and layer structure with supramolecular surface assemblies, *Letter to Nature*, Theobold, J A, Oxtoby, N S, Philips, M A, Champness, N R, Beton, P H, **424**, 1029

fullerides, Temperature-induced valence transition and associated lattice collapse in samarium fulleride, *Letter to Nature*, Arvanitidis, J, Papagelis, K, Margadonna, S, Prassides, K, Fitch, A N, **425**, 599

functional genomics, Functional genomics: RNA sets the standard, *News and views*, Tuschi, T, **421**, 220

functional information, Molecular messages, *Concepts*, Szostak, J W, **423**, 689

fundamentalism, Academics wrestle with issue of Islam's flagging science base, *News*, Butler, D, **422**, 101

fungi, Insight into a natural Diels-Alder reaction from the structure of macrophomate synthase, *Letter to Nature*, Ose, T, Watanabe, K, Mie, T, Honma, M, Watanabe, H, Yao, M, Oikawa, H, Tanaka, I, **422**, 185

Revelations from a bread mould, *News and views*, Arnold, J, Hilton, N, **422**, 821

Ecology: A liverwort cheat, *News and views*, Lincoln, T, **422**, 826

The genome sequence of the filamentous fungus *Neurospora crassa*, *Article*, Galagan, J E, Calvo, S E, Borkovich, K A, Selker, E U, Read, N D, Jaffe, D, FitzHugh, W, Ma, L-J, Smirnov, S, Purcell, S, Rehman, B, Elkins, T, Engels, R, Wang, S, Nielsen, C B, Butler, J, Endrizzi, M, Qui, D, Ianakiev, P, Bell-Pedersen, D, Nelson, M A, Werner-Washburne, M, Selitrennikoff, C P, Kinsey, J A, Braun, E L, Zelter, A, Schulte, U, Kothe, G O, Jedd, G, Mewes, W, Staben, C, Marcotte, E, Greenberg, D, Roy, A, Foley, K, Naylor, J, Stange-Thomann, N, Barrett, R, Gnerre, S, Kamal, M, Kamvysselis, M, Mauceli, E, Bielke, C, Rudd, S, Frishman, D, Krystofova, S, Rasmussen, C, Metzenberg, R L, Perkins, D D, Kroken, S, Cogoni, C, Macino, G, Catcheside, D, Li, W, Pratt, R J, Osmani, S A, DeSouza, C P C, Glass, L, Orbach, M J, Berglund, J A, Voelker, R, Yarden, O, Plamann, M, Seiler, S, Dunlap, J, Radford, A, Aramayo, R, Natvig, D O, Alex, L A, Mannhaupt, G, Ebbole, D J, Freitag, M, Paulsen, I, Sachs, M S, Lander, ES, Nusbaum, C, Birren, B, **422**, 859

The methylated component of the *Neurospora crassa* genome, *Letter to Nature*, Selker, E U, Tountas, N A, Cross, S H, Margolin, B S, Murphy, J G, Bird, A P, Freitag, M, **422**, 893

Genetics: Suicidal mushroom cells, *News and views*, Money, N P, **423**, 26

Corrigendum: Fungus-growing ants use antibiotic-producing bacteria to control garden parasites, *Letter to Nature*, Currie, C R, Scott, J A, Summerbell, R C, Malloch, D, **423**, 461

Fungus work flourishes in ashes of forest fires, *News in brief*, **425**, 8

fungicides, Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15

furans, A pre-industrial source of dioxins and furans, *Brief communication*, Meharg, A A, Killham, K, **421**, 909

fusion reactors, China set to join international fusion experiment, *News in brief*, **421**, 306

Fusion project back on track as US returns to the fold, *News*, Brumfiel, G, **421**, 563

Don't mention the war, *Opinion*, **423**, 207

US support for Spain triggers unease over fusion project, *News*, Brumfiel, G, Butler, D, **423**, 211

Fusion cash shortfall leaves JET grounded, *News*, Giles, J, **424**, 4

Spain in the frame for Europe's bid to host fusion reactor, *News in brief*, **424**, 606

future science, Tomorrow's People: How 21st Century Technology is Changing the Way we Think and Feel, Greenfield, S, *Book review by* Konner, M, **426**, 385
FutureGen project, Coal-fired power plant to bury issue of emissions, *News*, Hoag, H, **422**, 7
FutureMAP project, Terrorist betting leaves defence agency fighting for autonomy, *News*, Brumfiel, G, **424**, 601

G-proteins, The exocyst complex is required for targeting of Glut4 to the plasma membrane by insulin, *Letter to Nature*, Inoue, M, Chang, L, Hwang, J, Chiang, S-H, Saltiel, A R, **422**, 629
  Sphingolipid signalling in *Arabidopsis* guard cells involves heterotrimeric G proteins, *Letter to Nature*, Coursol, S, Fan, L-M, Le Stunff, H, Spiegel, S, Gilroy, S, Assmann, S M, **423**, 651
  T-type calcium channel regulation by specific G-protein βγ subunits, *Letter to Nature*, Wolfe, J T, Wang, H, Howard, J, Garrison, J C, Barrett, P Q, **424**, 209
  Yip3 catalyses the dissociation of endosomal Rab-GDI complexes, *Letter to Nature*, Sivars, U, Alvazian, D, Pfeffer, S R, **425**, 856
G-protein-coupled receptors, Free fatty acids regulate insulin secretion from pancreatic β cells through GRP40, *Letter to Nature*, Itoh, Y, Kawamata, Y, Harada, M, Kobayashi, M, Fujii, R, Fukusumi, S, Ogi, K, Hosoya, M, Tanaka, Y, Uejima, H, Tanaka, H, Maruyama, M, Satoh, R, Okubo, S, Kizawa, H, Komatsu, H, Matsumura, F, Noguchi, Y, Shinohara, T, Hinuma, S, Fujisawa, Y, Fujino, M, **422**, 173
  Proton-sensing G-protein-coupled receptors, *Letter to Nature*, Ludwig, M-G, Vanek, M, Guerini, D, Gasser, J A, Jones, C E, Junker, U, Hofstetter, H, Wolf, R M, Seuwen, K, **425**, 93
  Activation of the TRPC1 cation channel by metabotrophic glutamate receptor mGluR1, *Letter to Nature*, Kim, S J, Kim, Y S, Yuan, J P, Petralia, R S, Worley, P F, Linden, D J, **426**, 285
  Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2, *Letter to Nature*, Lorenz, K, Lohse, M J, Quitterer, U, **426**, 574
GABA, Analgesia and hyperalgesia from GABA-mediated modulation of the cerebral cortex, *Letter to Nature*, Jasmin, L, Rabkin, S D, Granato, A, Boudah, A, Ohara, P T, **424**, 316
  Direct modulation of synaptic vesicle priming by GABA_B receptor activation at a glutamatergic synapse, *Letter to Nature*, Sakaba, T, Neher, E, **424**, 775
GABA_A receptor, Coupling of agonist binding to channel gating in the GABA_A receptor, *Letter to Nature*, Kash, T L, Jenkins, A, Kelley, J C, Trudell, J R, Harrison, N L, **421**, 272
gabbro, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley, S F, Buhre, S, Jacob, D E, **421**, 249
Gadd45β
  Cell signalling: Cell survival and a Gadd-45-factor deficiency, *Brief communication*, Amanullah, A, Azam, N, Balliet, A, Hollander, C, Hoffman, B, Fornace Jr, A, Liebermann, D, **424**, 741
  Reply: Cell signalling: Cell survival and a Gadd-45-factor deficiency, *Brief communication*, Zazzeroni, F, Papa, S, De Smaele, E, Franzoso, G, **424**, 742
Gaia, The living Earth, *Concepts*, Lovelock, J, **426**, 769
Gakkel Ridge, Earth science: Spread thin in the Arctic, *News and views*, Klein, E M, **423**, 932
  Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel Ridge, Arctic Ocean, *Article*, Michael, P J, Langmuir, C H, Dick, H J B, Snow, J E, Goldstein, S L, Graham, D W, Lehnert, K, Kurras, G, Jokat, W, Muhe, R, Edmonds, H N, **423**, 956
  Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge, *Letter to Nature*, Jokat, W, Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J, **423**, 962
galaxies, Astronomy: Hot gas around the Galaxy, *News and views*, Sternberg, A, **421**, 708
  The far-ultraviolet signature of the 'missing' baryons in the Local Group of Galaxies, *Letter to Nature*, Nicastro, F, Zezas, A, Elvis, M, Mathur, S, Flore, F, Cecchi-Pestellini, C, Burke, D, Drake, J, Casella, P, **421**, 719
  Nanosecond radio bursts from strong plasma turbulence in the Crab nebula, *Letter to Nature*, Hankins, T H, Kern, J S, Weatherall, J C, Ellek, J A, **422**, 141
  Astronomy: Wrestling monsters in deep space, *News and views*, Cowie, L, **422**, 670
  A median redshift of 2.4 for galaxies bright at submillimetre wavelengths, *Letter to Nature*, Chapman, S C, Blain, A W, Ivison, R J, Small, I R, **422**, 695
  Astronomy: Elements of surprise, *News and views*, Cowan, J, **423**, 29
  The elemental abundance pattern in a galaxy at $z = 2.626$, *Letter to Nature*, Prochaska, J X, Howk, J C, Wolfe, A M, **423**, 57
  Type II supernovae as a significant source of interstellar dust, *Letter to Nature*, Dunne, L, Eales, S, Ivison, R, Morgan, H, Edmunds, M, **424**, 285
  Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$, *Letter to Nature*, Walter, F, Bertoldl, F, Carilli, C, Cox, P, Lo, K Y, Neri, R, Fan, X, Omont, A, Strauss, M A, Menten, K M, **424**, 406
  Cosmology: Support for dark energy, *News and views*, Ball, P, **424**, 507
  The formation of cluster elliptical galaxies as revealed by extensive star formation, *Letter to Nature*, Stevens, J A, Ivison, R J, Dunlop, J S, Smail, I R, Percival, W J, Hughes, D H, Rottgering, H J A, van Breugel, W J M, Reuland, M, **425**, 264
  Cosmologists cluster to plot course towards dark energy, *News*, Brumfiel, G, **425**, 335
  Astrophysics: Dark interactions, *News and views*, Baker, J, **425**, 364
  View of space expands in both directions, *News in brief*, **426**, 113
  A gravitationally lensed quasar with quadruple images separated by 14.62 arcseconds, *Letter to Nature*, Inada, N, Oguri, M, Pindor, B, Hennawi, J F, Chiu, K, Zheng, W, Ichikawa, S-I, Gregg, M D, Becker, R H, Suto, Y, Strauss, M A, Turner, E L, Keeton, C R, Annis, J, Castander, F J, Eisenstein, D J, Frieman, J A, Fukugita, M, Gunn, J E, Johnston, D E, Kent, S M, Nichol, R C, Richards, G T, Rix, H-W, Sheldon, E S, Bahcall, N A, Brinkmann, J, Ivezic, Z, Lamb, D Q, McKay, T A, Schneider, D P, York, D G, **426**, 810
galaxies, active, Investigation of the obscuring circumnuclear torus in the active galaxy Mrk231, *Letter to Nature*, Klöckner, H-R, Baan, W A, Garrett, M A, **421**, 821
galaxies, dwarf, A class of compact dwarf galaxies from disruptive processes in galaxy clusters, *Letter to Nature*, Drinkwater, M J, Gregg, M D, Hilker, M, Bekki, K, Couch, W J, Ferguson, H C, Jones, J B, Phillips, S, **423**, 519
galaxies, formation, The Road to Galaxy Formation, Keel, W C, *Book review by* Baugh, C, **421**, 791
  Astronomy: An early stellar nursery, *News and views*, Solomon, P, **424**, 382
Galaxy *see* Milky Way
galaxy clusters, A class of compact dwarf galaxies from disruptive processes in galaxy clusters, *Letter to Nature*, Drinkwater, M J, Gregg, M D, Hilker, M, Bekki, K, Couch, W J, Ferguson, H C, Jones, J B, Phillips, S, **423**, 519
Galileo, Galileo's Finger, Atkins, P, *Book review by* Wilczek, F, **422**, 377
  Pixels and piety, *Science in culture*, Kemp, M, **425**, 128
Galileo probe, Galileo gears up for swansong as crash-landing looms, *News*, Moore, J, **425**, 229
Galileo system, Europe's global navigation system heads east, *News in brief*, **425**, 337
gallium, Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **425**, 702
  Corrigendum: Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **426**, 584
gallium nitride, Single-crystal gallium nitride nanotubes, *Letter to Nature*, Goldberger, J, He, R, Zhang, Y, Lee, S, Yan, H, Choi, H-J, Yang, P, **422**, 599
game consoles, Game on for PlayStations as consoles take quantum leap, *News in brief*, **423**, 578
gamma radiation, Bomb dosimetry unlikely to change risk estimates, *Correspondence*, Mossman, K L, **425**, 237
gamma-aminobutyric acid (GABA), Neurobiology: Fear thou not, *News and views*, Dudai, Y, **421**, 325
gamma-ray bursts, Astronomy: The long and the short of it, *News and views*, Clarke, T, **422**, 33
  Astronomy: Glowing embers, *News and views*, Piran, T, **422**, 268
  Early optical emission from the γ-ray burst of 4 October 2002, *Letter to Nature*, Fox, D W, Yost, S, Kulkarni, S R, Torii, K, Kato, T, Yamaoka, H, Sako, M, Harrison, F A, Sari, R, Price, P A, Berger, E, Soderberg, A M, Djorgovski, S G, Barth, A J, Pravdo, S H, Frail, D A, Gal-Yam, A, Lipkin, Y, Mauch, T, Harrison, C, Buttery, H, **422**, 284
  Astronomy: New direction for γ-rays, *News and views*, Waxman, E, **423**, 388
  Polarization of the prompt γ-ray emission from the γ-ray burst of 6 December 2002, *Letter to Nature*, Coburn, W, Boggs, S E, **423**, 415
  The supernova connection, *News and views*, Meszaros, P, **423**, 809
  Structure in the early afterglow light curve of the γ-ray burst of 29 March 2003, *Letter to Nature*, Uemura, M, Kato, T, Ishioka, R, Yamaoka, H, Monard, B, Nogami, D, Maehara, H, Sugie, A, Takahashi, S, **423**, 843
  The bright optical afterglow of the nearby γ-ray burst of 29 March 2003, *Letter to Nature*, Price, P A, Fox, D W, Kulkarni, S R, Peterson, B A, Schmidt, B P, Soderberg, A M, Yost, S A, Berger, E, Djorgovski, S G, Frail, D A, Harrison, F A, Sari, R, Blain, A W, Chapman, S C, **423**, 844
  A very energetic supernova associated with the γ-ray burst of 29 March 2003, *Letter to Nature*, Hjorth, J, Sollerman, J, Moller, P, Fynbo, J P U, Woosley, S E, Kouveliotou, C, Tanvir, N R, Greiner, J, Andersen, M I, Castro-Tirado, A J, Castro Ceron, J M, Fruchter, A S, Gorosabel, J, Jakobsson, P, Kaper, L, Klose, S, Masetti, N, Pedersen, H, Pedersen, K, Plan, E, Palazzi, E, Rhoads, J E, Rol, E, van den Heuvel, E P J, Vreeswijk, P M, Watson, D, Wijers, R A M J, **423**, 847
  A γ-ray burst with a high-energy spectral component inconsistent with the synchrotron shock model, *Letter to Nature*, González, M M, Dingus, B L, Kaneko, Y, Preece, R D, Dermer, C D, Briggs, M S, **424**, 749
  Astrophysics: Refreshed shocks from a γ-ray burst, *Brief communication*, Granot, J, Nakar, E, Piran, T, **426**, 138
  Astrophysics: A constraint on canonical quantum gravity?, *Brief communication*, Mitrofanov, I G, **426**, 139
  A common origin for cosmic explosions inferred from calorimetry of GRB0303929, *Letter to Nature*, Berger, E, Kulkarni, S R, Pooley, G, Frail, D A, McIntyre, V, Wark, R M, Sari, R, Soderberg, A M, Fox, D W, Yost, S, Price, P A, **426**, 154
  Evolution of the polarization of the optical afterglow of the γ-ray burst GRB030329, *Letter to Nature*, Greiner, J, Klose, S, Reinsch, K, Schmid, H M, Sari, R, Hartmann, D H, Kouveliotou, C, Rau, A, Palazzi, E, Straubmeier, C, Stecklum, B, Zharikov, S, Tovmassian, G, Barnbanter, O, Ries, C, Jehin, E, Henden, A, Kaas, A A, Grav, T, Hjorth, J, Pedersen, H, Wijers, R A M J, Kaufer, A, Park, H-S, Williams, G, Reimer, O, **426**, 157
  Astronomy: Beacons in the distant cosmos, *News and views*, Piro, L, **426**, 397
  An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system, *Letter to Nature*, Burgay, M, D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R, **426**, 531
Gamma-ray Large Area Space Telescope, US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887
Gammasphere, Incredible! Hulk lab is nothing like reality, *News in brief*, **423**, 794
gardens, correction: Visual structure of a Japanese Zen garden, *Brief communication*, Van Tonder, G J, Lyons, M J, Ejima, Y, **421**, 230
  Secret garden opens up to public, *News*, Cyranoski, D, **425**, 333
gas giants, Astrophysics: Planetary orbits to the time warp, *News and views*, Baker, J, **425**, 34
gas jets, Astronomy: The mystery companion, *News and views*, Soker, N, **426**, 236
gas sensors, Miniaturized gas ionization sensors using carbon nanotubes, *Letter to Nature*, Modi, A, Koratkar, N, Lass, E, Wei, B, Ajayan, P M, **424**, 171
gases, Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$, *Letter to Nature*, Walter, F, Bertoldl, F, Carilli, C, Cox, P, Lo, K Y, Neri, R, Fan, X, Omont, A, Strauss, M A, Menten, K M, **424**, 406
  Kinetics: Gaussian statistics in granular gases, *Brief communication*, Baxter, G W, Olafsen, J S, **425**, 680
gastroenterology, Gut reaction, *News feature*, Whitfield, J, **423**, 583
gastrointestinal tract, Microbiology: Gut defence, *News and views*, Ganz, T, **422**, 478
  Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin, *Letter to Nature*, Salzman, N H, Ghosh, D, Huttner, K M, Paterson, Y, Bevins, C L, **422**, 522
  Gut reaction, *News feature*, Whitfield, J, **423**, 583
GATA4, GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5, *Letter to Nature*, Garg, V, Kathiriya, I S, Barnes, R, Schluterman, M K, ing, I N, Butler, C A, Rothrock, C R, Eapen, R S, Hirayama-Yamada, K, Joo, K, Matsuoka, R, Cohen, J C, Srivastava, D, **424**, 443
Gates, Bill, Gates ploughs millions into plan for assault on killer diseases, *News*, Butler, D, **421**, 461
  In praise of Gates, *Editorial*, **425**, 435
gaussian statistics, Kinetics: Gaussian statistics in granular gases, *Brief communication*, Baxter, G W, Olafsen, J S, **425**, 680
Gaza Strip, Geologists call for desalination of Gaza Strip's water, *News*, Mason, B, **426**, 110
geldanamycin, Cancer: The rules of attraction, *News and views*, Neckers, L, Lee, Y-S, **425**, 357
gender differences, Evolution: Aquatic life and the larger male, *News and views*, Whitfield, J, **421**, 597
gender issues, A plea for diversity, *News feature*, Gewin, V, **422**, 368
  A career in sport? I'd rather be on the bench, *News in brief*, **423**, 374
  Evolution: The battle between the sexes, *News and views*, Tregenza, T, **423**, 929
  Young women astronomers are in the ascendant, *News in brief*, **424**, 8
  Essential Difference: Men, Women and the Extreme Male Brain/Essential Difference: The Truth About the Male and Female Brain, Baron-Cohen, S, *Book review by* Benenson, J F, **424**, 132
  Women's career award crosses gender divide, *News in brief*, **424**, 362
  Women struggle towards top of career ladder, *News in brief*, **426**, 8
gender switching. Changing sex at the same relative body size, *Brief communication*, Allsop, D J, West, S A, **425**, 783
genes, Feature: Discovering genes are made of DNA, *Feature*, McCarty, M, **421**, 406
  Feature: Nature, nurture and human disease, *Feature*, Chakravarti, A, Little, P, **421**, 412
  Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution, Shennan, S, *Book review by* Bettinger, R L, **422**, 20
  Gene patents and the public good, *Opinion*, **423**, 207
  Sex Wars: Genes, Bacteria, and Biased Sex Ratios, Majerus, M E N, *Book review by* Arnqvist, G, **424**, 616
  Coral reveals ancient origins of human genes, *News*, Dennis, C, **426**, 744
genes, patents, This protein belongs to, *News feature*, Cyranoski, D, **426**, 10
Genesweep, Geneticists play the numbers game in vain, *News*, Pearson, H, **423**, 576
gene activity, Signal transduction: An eye on organ development, *News and views*, Epstein, J A, Neel, B G, **426**, 238
gene autonomy, Positions, please, *Concepts*, Dillon, N, **425**, 457
gene dispensability, Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Pal, C, Papp, B, Hurst, L D, **421**, 496
  Reply: Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Hirsh, A E, Fraser, H B, **421**, 497
gene duplication, Molecular evolution: Duplication, duplication, *News and views*, Meyer, A, **421**, 31
  Role of duplicate genes in genetic robustness against null mutations, *Letter to Nature*, Gu, Z, Steinmetz, L M, Gu, X, Scharfe, C, Davis, R W, Li, W-H, **421**, 63
  Yeast genome duplication was followed by asynchronous differentiation of duplicated genes, *Letter to Nature*, Langkjaer, R B, Cliften, P F, Johnston, M, Piškur, J, **421**, 848
gene expression, Feature: Controlling the double helix, *Feature*, Felsenfeld, G, Groudine, M, **421**, 448

Altered states, *News feature*, Dennis, C, **421**, 686

Genomics: Gene expression meets genetics, *News and views*, Darvasi, A, **422**, 269

Genetics of gene expression surveyed in maize, mouse and man, *Letter to Nature*, Schadt, E E, Monks, S A, Drake, T A, Lusis, A J, Che, N, Colinayo, V, Ruff, T G, Milligan, S B, Lamb, J R, Cavet, G, Linsley, P S, Mao, M, Stoughton, R B, Friend, S H, **422**, 297

Noise in eukaryotic gene expression, *Letter to Nature*, Blake, W J, Kaern, M, Cantor, C R, Collins, J J, **422**, 633

Japanese lab turns the page on cDNA delivery, *News in brief*, **422**, 794

Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849

Gene expression: Silent clones speak up, *News and views*, Reik, W, Dean, W, **423**, 390

A nucleosomal function for IκB kinase-α in NF-κB-dependent gene expression, *Letter to Nature*, Anest, V, Hanson, J L, Cogswell, P C, Steinbrecher, K A, Strahl, B D, Baldwin, A S, **423**, 659

Transcription regulation and animal diversity, *Review article*, Levine, M, Tjian, R, **424**, 147

Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition, *Letter to Nature*, Buffelli, M, Burgess, R W, Feng, G, Lobe, C G, Lichtman, J W, Sanes, J R, **424**, 430

The expression domain of *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **424**, 438

Cancer: Hostile takeover, *News and views*, Heemels, M-T, **424**, 898

Erratum: The expression domain *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **425**, 102

A micrococcal nuclease homologue in RNAi effector complexes, *Letter to Nature*, Caudy, A M, Ketting, R F, Hammond, S M, Denli, A M, Bathoorn, A M P, Tops, B J B, Silva, J M, Myers, M M, Hannon, G J, Plasterk, R H A, **425**, 411

BAC-to-BAC images of the brain, *News and views*, Zoghbi, H Y, **425**, 907

A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917

A self-organizing system of repressor gradients establishes segmental complexity in *Drosophila*, *Letter to Nature*, Clyde, D E, Corado, M S G, Wu, X, Pare, A, Papatsenko, D, Small, S, **426**, 849

Gene Expression Nervous System Atlas, *See* GENSAT, **gene families,** Dosage sensitivity and the evolution of gene families in yeast, *Letter to Nature*, Papp, B, Pál, C, Hurst, L D, **424**, 194

gene flow, Transgenic crop trial's gene flow turns weeds into wimps, *News*, Adam, D, **421**, 462

Gene flow might turn wimps into superweeds, *Correspondence*, Muth, N, **421**, 785

gene function, Systematic functional analysis of the *Caenorhabditis elegans* genome using RNAi, *Article*, Kamath, R S, Fraser, A G, Dong, Y, Poulin, G, Durbin, R, Gotta, M, Kanapin, A, Le Bot, N, Moreno, S, Sohrmann, M, Welchman, D P, Zipperien, P, Ahringer, J, **421**, 231

Developmental biology: A twist in a mouse tale, *News and views*, Dyson, N, **421**, 903

gene knockout, Developmental biology: Gender benders, *News and views*, Koopman, P, **426**, 241

gene loss, Evolutionary biology: Loss for profit, *News and views*, Whitfield, J, **425**, 34

gene mapping, The DNA sequence and analysis of human chromosome 14, *Article*, Heilig, R, Eckenberg, R, Petit, J-L *et al.* (See footnote 1 on p. 59 for full author list), **421**, 601

Legal row looms for gene-map firm, *News*, Dalton, R, **423**, 470

The DNA sequence of human chromosome 7, *Article*, Hillier, L W, Fulton, R S, Fulton, L A *et al.* (See footnote 2 on p. 59 for full author list), **424**, 157

Maize map see geneticists split over choice of direction, *News*, Dennis, C, **424**, 476

Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15

Functional genetic analysis of mouse chromosome 11, *Letter to Nature*, Kile, B T, Hentges, K E, Clark, A T, Nakamura, H, Salinger, A P, Liu, B, Box, N, Stockton, D W, Johnson, R L, Behringer, R R, Bradley, A, Justice, M J, **425**, 81

gene networks, Theoretical biology: Safeguards and spurs, *News and views*, Stearns, S C, **424**, 501

Evolutionary capacitance as a general feature of complex gene networks, *Letter to Nature*, Bergman, A, Siegal, M L, **424**, 549

gene profiling, What do you get if you cross comedy with gene profiling?, *News in brief*, **421**, 103

gene redundancy, Yeast genome duplication was followed by asynchronous differentiation of duplicated genes, *Letter to Nature*, Langkjaer, R B, Cliften, P F, Johnston, M, Piškur, J, **421**, 848

gene regulation, Molecular biology: Complicity of gene and pseudogene, *News and views*, Lee, J T, **423**, 26

Gene regulation: RNA switches, *News and views*, Pilcher, H R, **423**, 702

Gene regulation: Versatile assembler, *News and views*, Henikoff, S, **423**, 814

Switched on to RNA, *News feature*, Knight, J, **425**, 232

gene sequencing, The DNA sequence and analysis of human chromosome 14, *Article*, Heilig, R, Eckenberg, R, Petit, J-L *et al.* (See footnote 1 on p. 59 for full author list), **421**, 601

Constellations in a cellular universe, *Commentary*, Aebersold, R, **422**, 115

The Delphic Boat: What Genomes Tell Us, Danchin, A, Quayle, A, *Book review by* Meyer, A, **422**, 564

A vision for the future of genomics research, *Feature*, Collins, F S, Green, E D, Guttmacher, A E, Guyer, M S, **422**, 835

Unique physiological and pathogenic features of *Leptospira interrogans* revealed by whole-genome sequencing, *Letter to Nature*, Ren, S-X, Fu, G, Jiang, X-G, Zeng, R, Miao, Y-G, Xu, H, Zhang, Y-X, Zxiong, H, Lu, G, Lu, L-F, Jiang, H-Q, Jia, J, Tu, Y-F, Jiang, J-X, Gu, W-Y, Zhang, Y-Q, Cai, Z, Sheng, H-H, Yin, H-F, Zhang, Y, Zhu, G-F, Wan, M, Huang, H-L, Qian, Z, Wang, S-Y, Ma, W, Yao, Z-J, Shen, Y, Qiang, B-Q, Xia, Q-C, Guo, X-K, Danchin, A, Saint Girons, I, Somerville, R L, Wen, Y-M, Shi, M-H, Xhen, Z, Xu, J-G, Zhao, G-P, **422**, 888

The DNA sequence of human chromosome 7, *Article*, Hillier, L W, Fulton, R S, Fulton, L A *et al.* (See footnote 2 on p. 59 for full author list), **424**, 157

The DNA sequence and analysis of human chromosome 6, *Article*, Mungall, A J, Palmer, S A, Sims *et al.* (See footnote 3 on p. 59 for full author list), **425**, 805

Genomics: Compare and contrast, *News feature*, Dennis, C, **426**, 750

gene silencing, Functional genomics: RNA sets the standard, *News and views*, Tuschi, T, **421**, 220

DNA triplet repeats mediate heterochromatin-protein-1-sensitive variegated gene silencing, *Letter to Nature*, Saveliev, A, Everett, C, Sharpe, T, Webster, Z, Festenstein, R, **422**, 909

RNA to the rescue?, *News feature*, Check, E, **425**, 10

Structure and conserved RNA binding of the PAZ domain, *Letter to Nature*, Yan, K S, Yan, S, Farooq, A, Han, A, Zeng, L, Zhou, M-M, **426**, 469

gene therapy, Second cancer case halts gene-therapy trials, *News*, Check, E, **421**, 305

Cancer fears casts doubts on future of gene therapy, *News*, Check, E, **421**, 678

Cancer risk prompts US to curb gene therapy, *News*, Check, E, **422**, 7

DNA: The secret of life, Watson, J D, Berry, A, Knopf, A A, *Book review by* Singer, M, **422**, 809

Harmful potential of viral vectors fuels doubts over gene therapy, *News*, Check, E, **423**, 573

Looking into the safety of AAV vectors, *Correspondence*, Kay, M A, Nakai, H, **424**, 251

gene transfer, Direct measurement of the transfer rate of chloroplast DNA into the nucleus, *Letter to Nature*, Huang, C Y, Ayliffe, M A, Timmis, J N, **422**, 72

Widespread horizontal transfer of mitochondrial genes in flowering plants, *Letter to Nature*, Bergthorsson, U, Adams, K L, Thomason, B, Palmer, J D, **424**, 197

Piglets add some colour to transgenic story, *News*, Nosengo, N, **424**, 604

generosity, Behavioural science: Fair's fair, *News and views*, Bewley, T, **422**, 125

genetics, Genetic Politics: From Eugenics to Genome, Kerr, A, Shakespeare, T, *Book review by* Steinbock, B, **421**, 213

Genetics and Society: An Introduction, Pilnick, A, *Book review by* Steinbock, B, **421**, 213

Travel grants available for genetics congress, *Correspondence*, Griffiths, A J F, **421**, 313

Feature: Discovering genes are made of DNA, *Feature*, McCarty, M, **421**, 406

Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Pal, C, Papp, B, Hurst, L D, **421**, 496

Reply: Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Hirsh, A E, Fraser, H B, **421**, 497

The genetic basis of family conflict resolution in mice, *Letter to Nature*, Hager, R, Johnstone, R A, **421**, 533

DNA study deepens rift over Iceland's genetic heritage, *News*, Abbott, A, **421**, 678

Error reports threaten to unravel databases of mitochondrial DNA, *News*, Dennis, C, **421**, 773

Disease susceptibility in California sea lions, *Brief communication*, Acevedo-Whitehouse, K, Gulland, F, Greig, D, Amos, W, **422**, 35

Genomics: Gene expression meets genetics, *News and views*, Darvasi, A, **422**, 269

Genetics of gene expression surveyed in maize, mouse and man, *Letter to Nature*, Schadt, E E, Monks, S A, Drake, T A, Lusis, A J, Che, N, Colinayo, V, Ruff, T G, Milligan, S B, Lamb, J R, Cavet, G, Linsley, P S, Mao, M, Stoughton, R B, Friend, S H, **422**, 297

Time will tell, *Science in culture*, Kemp, M, **422**, 380

Genetics to unlock secrets of our African past, *News*, Cherry, M, **422**, 460

Cash crisis forces US genetics lab to close, *News in brief*, **422**, 462

Japanese lab turns the page on cDNA delivery, *News in brief*, **422**, 794

DNA: The secret of life, Watson, J D, Berry, A, Knopf, A A, *Book review by* Singer, M, **422**, 809

Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849

Genetics: Suicidal mushroom cells, *News and views*, Money, N P, **423**, 26

Geneticists question fees for use of patented 'junk' DNA, *News*, Dennis, C, **423**, 105

Reflections on our Past: How Human History is Revealed in Our Genes, Relethford, J H, *Book review by* Cann, R, **423**, 117

The Journey of Man: A Genetic Odyssey, Wells, S, *Book review by* Cann, R, **423**, 117

The X in Sex: How the Chromosome Controls our Lives, Bainbridge, D, *Book review by* Marshall Graves, J A, **423**, 223

Cancer: Genetic prescription, *News and views*, Carlsson, C, **423**, 496

Association of the T-cell regulatory gene *CTLA4* with susceptibility to autoimmune disease, *Article*, Ueda, H, Howson, J M M, Esposito, L, Heward, J, Snook, H, Chamberlain, G, Rainbow, D B, Hunter, K M D, Smith, A N, Di Genova, G, Herr, M H, Dahlman, I, Payne, F, Smyth, D, Lowe, C, Twells, R C J, Howlett, S, Healy, B, Nutland, S, Rance, H E, Everett, V, Smink, L J, Lam, A C, Cordell, H J, Walker, N M, Bordin, C, Hulme, J, Motzo, C, Cucca, F, Hess, J F, Metzker, M L, Rogers, J, Gregory, S, Allahabadia, A, Nithiyananthan, R, Tuomilehto-Wolf, E, Tuomilehto, J, Bingley, P, Gillespie, K M, Undlien, D E, Ronningen, K S, Guja, C, Ionescu-Tîrgovişte, C, Savage, D A, Maxwell, A P, Carson, D J, Patterson, C C, Franklyn, J A, Clayton, D G, Peterson, L B, Wicker, L S, Todd, J A, Gough, S C L, **423**, 506

Geneticists play the numbers game in vain, *News*, Pearson, H, **423**, 576

The double puzzle of diabetes, *News and views feature*, Diamond, J, **423**, 599

Charities chip in to save chromosome institute, *News in brief*, **423**, 677

Whitehead geneticist quits for broad remit at medical institute, *News in brief*, **423**, 910

The DNA sequence of human chromosome 7, *Article*, Hillier, L W, Fulton, R S, Fulton, L A *et al.* (See footnote 2 on p. 59 for full author list), **424**, 157

Ageing: Microarraying mortality, *News and views*, Gems, D, McElwee, J J, **424**, 259

Genes that act downstream of DAF-16 to influence the lifespan of *Caenorhabditis elegans*, *Article*, Murphy, C T, McCarroll, S A, Bargmann, C I, Fraser, A, Kamath, R S, Ahringer, J, Li, H, Kenyon, C, **424**, 277

Complex hybrid origin of genetic caste determination in harvester ants, *Letter to Nature*, Helms Cahan, S, Keller, L, **424**, 306

A genetic melting pot, *Concepts*, Feldman, M W, Lewontin, R C, King, M C, **424**, 374

Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition, *Letter to Nature*, Buffelli, M, Burgess, R W, Feng, G, Lobe, C G, Lichtman, J W, Sanes, J R, **424**, 430

Whale genetics study leaves conservationists all at sea, *News*, Clarke, T, Knight, J, **424**, 479

Theoretical biology: Safeguards and spurs, *News and views*, Stearns, S C, **424**, 501

Reptile study will add scale to evolutionary genetics, *News in brief*, **424**, 988

Genetics: A balancing act, *News and views*, Rossant, J, **425**, 29

Ecological and genetic spatial structuring in the Canadian lynx, *Letter to Nature*, Rueness, E K, Stenseth, N C, O'Donoghue, M, Boutin, S, Ellegren, H, Jakobsen, K S, **425**, 69

Software mogul turns to mouse for genetic atlas of the brain, *News*, Dalton, R, **425**, 226

Prizes aplenty honour genetics and astronomy, *News in brief*, **425**, 230

Viral genetics: Deadly partnerships, *News and views*, Frank, S A, **425**, 251

Genetics: Dyslexic inheritance, *News and views*, Lincoln, T, **425**, 573

The rough guide to the genome, *News feature*, Dennis, C, **425**, 758

Genetics: Secrets of a porkier porker, *News and views*, Gunter, C, **425**, 777

Metabolism: It's in the genes, *News and views*, Furness, R W, **425**, 779

Coronary Artery Disease: Genes, Drugs, and the Agricultural Connection, Faergeman, O, *Book review by* Nestle, M, **425**, 902

George Beadle, and Uncommon Farmer: The Emergence of Genetics in the 20th Century, Berg, P, Singer, M, *Book review by* Müller-Hill, B, **426**, 122

A genetic basis for *Pseudomonas aeruginosa* biofilm antibiotic resistance, *Letter to Nature*, Mah, T-F, Pitts, B, Pellock, B, Walker, G C, Stewart, P S, O'Toole, G A, **426**, 306

Genetics: Influence of TOR kinase on lifespan in C. elegans, *Brief communication*, Vellai, T, Takacs-Vellai, K, Zhang, Y, Kovacs, A L, Orosz, L, Muller, F, **426**, 620

genetics, comparative, Genomics: Compare and contrast, *News feature*, Dennis, C, **426**, 750

genetics, human, Human genetics: Lost anchors cost lives, *News and views*, Nattel, S, **421**, 587

Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death, *Letter to Nature*, Mohler, P J, Schott, J-J, Gramolini, A O, Dilly, K W, Guatimosim, S, duBell, W H, Song, L-S, Haurogne, K, Kyndt, F, Ali, M E, Rogers, T B, Lederer, W J, Escande, D, Le Marec, H, Bennett, V, **421**, 634

Genetics Technologies, Geneticists question fees for use of patented 'junk' DNA, *News*, Dennis, C, **423**, 105

genetic analysis, Biologists moot daunting plan to track viruses, *News*, Knight, J, Abbott, A, **423**, 471

genetic discrimination, A scarlet letter or a red herring?, *Correspondence*, Nowlan, W J, **421**, 313

genetic disorders, Bill promises genetic privacy for US citizens, *News in brief*, **423**, 472

genetic diversity, Strong population substructure is correlated with morphology and ecology in a migratory bat, *Letter to Nature*, Miller-Butterworth, C M, Jacobs, D S, Harley, E H, **424**, 187

Palaeoceanographic implications of genetic variation in living North Atlantic *Neogloboquadrina pachyderma*, *Letter to Nature*, Bauch, D, Darling, K, Simstich, J, Bauch, H A, Erienkeuser, H, Kroon, D, **424**, 299

genetic engineering, Genetic-engineering projects falling by the wayside in Europe, *News in brief*, **422**, 106

Art: A leap into the future, Rockman, A, *Book review*, **423**, 19

Obituary: Jeff Schell (1935-2003), *News and views*, Van Montagu, M, **423**, 934

Unnatural selection, *Concepts*, Snow, A, **424**, 619
The Red Canary: The Story of the First Genetically Engineered Animal, *Book review*, Birkhead, T, Coyne, J A, **425**, 772
genetic exchange, Mechanism of genetic exchange in American trypanosomes, *Letter to Nature*, Gaunt, M W, Yeo, M, Frame, I A, Stothard, J R, Carrasco, H J, Taylor, M C, Mena, S S, Veazey, P, Miles, G A J, Acosta, N, Rojas de Arias, A, Miles, M A, **421**, 936
genetic imprinting, Behavioural genetics: Family matters, *News and views*, Haig, D, **421**, 491
genetic polymorphism, Evolutionary capacitance as a general feature of complex gene networks, *Letter to Nature*, Bergman, A, Siegal, M L, **424**, 549
genetic privacy, Bill promises genetic privacy for US citizens, *News in brief*, **423**, 472
genetic variation, Feature: The mosaic that is our genome, *Feature*, Paabo, S, **421**, 409
Feature: Nature, nurture and human disease, *Feature*, Chakravarti, A, Little, P, **421**, 412
genetically engineered organisms, Unnatural selection, *Concepts*, Snow, A, **424**, 619
genetically modified animals *see* transgenic animals
genetically modified crops *see* transgenic crops
genochemistry, The living Earth, *Concepts*, Lovelock, J, **426**, 769
genome, Consumers warned that time is not yet ripe for nutrition profiling, *News*, Check, E, **426**, 107
Developmental biology: Gender benders, *News and views*, Koopman, P, **426**, 241
genome biology, Genome biology: Tales of the Y chromosome, *News and views*, Willard, H F, **423**, 810
genome duplication, It's all relative, *News and views*, Kellogg, E A, **422**, 383
genome evolution, Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Pal, C, Papp, B, Hurst, L D, **421**, 496
Reply: Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Hirsh, A E, Fraser, H B, **421**, 497
Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution, Shennan, S, *Book review by* Bettinger, R L, **422**, 20
Rapid change in mouse mitochondrial DNA, *Brief communication*, Pergams, O R W, Barnes, W M, Nyberg, D, **423**, 397
Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events, *Letter to Nature*, Bowers, J E, Chapman, B A, Rong, J, Paterson, A H, **422**, 433
genome function, Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Pal, C, Papp, B, Hurst, L D, **421**, 496
Reply: Genomic function: Rate of evolution and gene dispensability, *Brief communication*, Hirsh, A E, Fraser, H B, **421**, 497
genome research, Molecular evolution: Duplication, duplication, *News and views*, Meyer, A, **421**, 31
Role of duplicate genes in genetic robustness against null mutations, *Letter to Nature*, Gu, Z, Steinmetz, L M, Gu, X, Scharfe, C, Davis, R W, Li, W-H, **421**, 63
Malaria after the genome, *Editorial*, **421**, 97
Mobilization of a transposon in the rice genome, *Letter to Nature*, Nakazaki, T, Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T, **421**, 170
Systematic functional analysis of the *Caenorhabditis elegans* genome using RNAi, *Article*, Kamath, R S, Fraser, A G, Dong, Y, Poulin, G, Durbin, R, Gotta, M, Kanapin, A, Le Bot, N, Moreno, S, Sohrmann, M, Welchman, D P, Zipperien, P, Ahringer, J, **421**, 231
Feature: The mosaic that is our genome, *Feature*, Paabo, S, **421**, 409
Wallaby hops into running for genome sequence, *News in brief*, **421**, 778
Yeast genome duplication was followed by asynchronous differentiation of duplicated genes, *Letter to Nature*, Langkjaer, R B, Cliften, P F, Johnston, M, Piškur, J, **421**, 848
Genomes take pole position in the icy wastes, *News*, Hoag, H, **421**, 880
The Delphic Boat: What Genomes Tell Us, Danchin, A, Quayle, A, *Book review by* Meyer, A, **422**, 564
Unrestricted free access works and must continue, *Correspondence*, Salzberg, S, Birney, E, Eddy, S, White, O, **422**, 801
Revelations from a bread mould, *News and views*, Arnold, J, Hilton, N, **422**, 821
The methylated component of the *Neurospora crassa* genome, *Letter to Nature*, Selker, E U, Tountas, N A, Cross, S H, Margolin, B S, Murphy, J G, Bird, A P, Freitag, M, **422**, 893
Cell division: Genome maintenance, *News and views*, Raff, J W, **423**, 493
Geneticists play the numbers game in vain, *News*, Pearson, H, **423**, 576
The male-specific region of the human Y chromosome is a mosaic of discrete sequence classes, *Article*, Skaletsky, H, Kuroda-Kawaguchi, T, Minx, P J, Cordum, H S, Hillier, L, Brown, L G, Repping, S, Pyntikova, T, Ali, J, Bieri, T, Chinwalla, A, Delehaunty, A, Delehaunty, K, Du, H, Fewell, G, Fulton, L, Fulton, R, Graves, T, Hou, S-F, Latrielle, P, Leonard, S, Mardis, E, Maupin, R, McPherson, J, Miner, T, Nash, W, Nguyen, C, Ozersky, P, Pepin, K, Rock, S, Rohlfing, T, Scott, K, Schultz, B, Strong, C, Tin-Wollam, A, Yang, S-P, Waterston, R H, Wilson, R K, Rozen, S, Page, D C, **423**, 825
Telomeres: Taking the measure, *News and views*, Lundblad, V, **423**, 926
Maize map see geneticists split over choice of direction, *News*, Dennis, C, **424**, 476
Companies vie to put all your genes on a chip, *News*, Dennis, C, **424**, 605
Australia beefs up an udder genome project, *News in brief*, **424**, 606
Vital statistics, *News feature*, Tilstone, C, **424**, 610
The genome of a motile marine *Synechococcus*, *Letter to Nature*, Palenik, B, Brahamsha, B, Larimer, F W, Land, M, Hauser, L, Chain, P, Lamerdin, J, Regala, W, Allen, E E, McCarren, J, Paulsen, I, Dufresne, A, Partensky, F, Webb, E A, Waterbury, J, **424**, 1037
Genome divergence in two *Prochlorococcus* ecotypes reflects oceanic niche differentiation, *Letter to Nature*, Rocap, G, Larimer, F W, Lamerdin, J, Malfatti, S, Chain, P, Ahigren, N A, Arellano, S, Coleman, M, Hauser, L, Hess, W R, Johnson, Z I, Land, M, Lindell, D, Post, A F, Regala, W, Shah, M, Shaw, S L, Steglich, C, Sullivan, M B, Ting, C S, Tolonen, A, Webb, E A, Zinser, E R, Chisholm, S W, **424**, 1042
Genetics: A balancing act, *News and views*, Rossant, J, **425**, 29
Worm genes harnessed to tackle snail fever, *News*, Cyranoski, D, **425**, 227
Venter's dog genome sets tongues wagging, *News in brief*, **425**, 442
Opossum hops over kangaroo to top of genome list, *News*, Dennis, C, **425**, 753
The rough guide to the genome, *News feature*, Dennis, C, **425**, 758
Six is seventh, *News and views*, Grimwood, J, Schmutz, J, **425**, 775
Genetics: Secrets of a porkier porker, *News and views*, Gunter, C, **425**, 777
Genome-scale approaches to resolving incongruence in molecular phylogenies, *Article*, Rokas, A, Williams, B L, King, N, Carroll, S B, **425**, 798
Chimp genome hints at little differences that make us human, *News in brief*, **426**, 746
Genomics: Compare and contrast, *News feature*, Dennis, C, **426**, 750
genome sequencing, Corrigendum: The genome sequence of *Schizosaccharomyces pombe*, *Letter to Nature*, Wood, V, Gwilliam, R, Rajandream, M-A *et al.*[4], **421**, 94
Functional genomics: RNA sets the standard, *News and views*, Tuschi, T, **421**, 220
Sacrifice for the greater good, *Editorial*, **421**, 875
Draft guidelines ease restrictions on use of genome sequence data, *News*, Dennis, C, **421**, 877
The genome sequence of the filamentous fungus *Neurospora crassa*, *Article*, Galagan, J E, Calvo, S E, Borkovich, K A, Selker, E U, Read, N D, Jaffe, D, FitzHugh, W, Ma, L-J, Smirnov, S, Purcell, S, Rehman, B, Elkins, T, Engels, R, Wang, S, Nielsen, C B, Butler, J, Endrizzi, M, Qui, D, Ianakiev, P, Bell-Pedersen, D, Nelson, M A, Werner-Washburne, M, Selitrennikoff, C P, Kinsey, J A, Braun, E L, Zelter, A, Schulte, U, Kothe, G O, Jedd, G, Mewes, W, Staben, C, Marcotte, E, Greenberg, D, Roy, A, Foley, K, Naylor, J, Stange-Thomann, N, Barrett, R, Gnerre, S, Kamal, M, Kamvysselis, M, Mauceli, E, Bielke, C, Rudd, S, Frishman, D, Krystofova, S, Rasmussen, C, Metzenberg, R L, Perkins, D D, Kroken, S, Cogoni, C, Macino, G, Catcheside, D, Li, W, Pratt, R J, Osmani, S A, DeSouza, C P C, Glass, L, Orbach, M J, Berglund, J A, Voelker, R, Yarden, O, Plamann, M, Seiler, S, Dunlap, J, Radford, A, Aramayo, R, Natvig, D O, Alex, L A, Mannhaupt, G, Ebbole, D J, Freitag, M, Paulsen, I, Sachs, M S, Lander, ES, Nusbaum, C, Birren, B, **422**, 859
Unique physiological and pathogenic features of *Leptospira interrogans* revealed by whole-genome sequencing, *Letter to Nature*, Ren, S-X, Fu, G, Jiang, X-G, Zeng, R, Miao, Y-G, Xu, H, Zhang, Y-X, Zxiong, H, Lu, G, Lu, L-F, Jiang, H-Q, Jia, J, Tu, Y-F, Jiang, J-X, Gu, W-Y, Zhang, Y-Q, Cai, Z, Sheng, H-H, Yin, H-F, Zhang, Y, Zhu, G-F, Wan, M, Huang, H-L, Qian, Z, Wang, S-Y, Ma, W, Yao, Z-J, Shen, Y, Qiang, B-Q, Xia, Q-C, Guo, X-K, Danchin, A, Saint Girons, I, Somerville, R L, Wen, Y-M, Shi, M-H, Xhen, Z, Xu, J-G, Zhao, G-P, **422**, 888
The genome sequence of *Bacillus anthracis* Ames and comparison to closely related bacteria, *Letter to Nature*, Read, T D, Peterson, S N, Tourasse, N, Baillie, L W, Paulsen, I T, Nelson, K E, Tettelin, H, Fouts, D E, Eisen, J A, Gill, S R, Holtzapple, E K, Okstad, O A, Helgason, E, Rilstone, J, Wu, M, Kolonay, J F, Beanan, M J, Dodson, R J, Binkac, L M, Gwinn, M, DeBoy, R T, Madpu, R, Daugherty, S C, Durkin, A S, Haft, D H, Nelson, W C, Peterson, J D, Pop, M, Khouri, H M, Radune, D, Benton, J L, Mahamoud, Y, Jiang, L, Hance, I R, Weldman, J F, Berry, K J, Plaut, R D, Wolf, A M, Watkins, K L, Nierman, W C, Hazen, A, Cline, R, Redmond, C, Thwaite, J E, White, O, Salzberg, S L, Thomason, B, Friedlander, A M, Koehler, T M, Hanna, P C, Kolsto, A-B, Fraser, C M, **423**, 81
Genome sequence of *Bacillus cereus* and comparative analysis with *Bacillus anthracis*, *Letter to Nature*, Ivanova, N, Sorokin, A, Anderson, I, Galleron, N, Candelon, B, Kapatral, V, Bhattacharyya, A, Reznik, G, Mikhailova, N, Lapidus, A, Chu, L, Mazur, M, Goltsman, E, Larsen, N, D'Souza, M, Walunas, T, Grechkin, Y, Pusch, G, Haselkorn, R, Fonstein, M, Ehrlich, S D, Overbeek, R, Kyrpides, N, **423**, 87
Genomics: Yeast rises again, *News and views*, Salzberg, S L, **423**, 233
Sequencing and comparison of yeast species to identify genes and regulatory elements, *Article*, Kellis, M, Pattrson, N, Endrizzi, M, Birren, B, Lander, E S, **423**, 241
Transcription regulation and animal diversity, *Review article*, Levine, M, Tjian, R, **424**, 147
The DNA sequence of human chromosome 7, *Article*, Hillier, L W, Fulton, R S, Fulton, L A *et al.* (See footnote 2 on p. 59 for full author list), **424**, 157
Comparative analyses of multi-species sequences from targeted genomic regions, *Letter to Nature*, Thomas, J W, Touchman, J W, Blakesley, R W, Bouffard, G G, Beckstrom-Sternberg, S M, Margulies, E H, Blanchette, M, Siepel, A C, Thomas, P J, McDowell, J C, Maskeri, B, Hansen, N F, Schwartz, M S, Weber, R J, Kent, W J, Karolchik, D, Bruen, T C, Bevan, R, Cutler, D J, Schwartz, S, Elnitski, L, Idol, J R, Prasad, A B, Lee-Lin, S-Q, Maduro, V V B, Summers, T J, Portnoy, M E, Dietrich, N L, Akhter, N, Ayele, K, Benjamin, B, Cariaga, K, Brinkley, C P, Brooks, S Y, Granite, S, Guan, X, Gupta, J, Haghighi, P, Ho, S-L, Huang, M C, Karlins, E, Laric, P L, Legaspi, R, Lim, M J, Maduro, Q L, Masiello, C A, Mastrian, S D, McCloskey, J C, Pearson, R, Stantripop, S, Tiongson, E E, Tran, J T, Tsurgeon, C, Vogt, J L, Walker, M A, Wetherby, K D, Wiggins, L S, Young, A C, Zhang, L-H, Osoegawa, K, Zhu, B, Zhao, B, Shu, C L, De Jong, P J, Lawrence, C E, Smit, A F, Chakravarti, A, Haussler, D, Green, P, Miller, W, Green, E D, **424**, 788
Genome sequences from the sea, *News and views*, Fuhrman, J, **424**, 1001
Molecular biology: MicroRNA is here to stay, *News and views*, Benfrey, P N, **425**, 244
The DNA sequence and analysis of human chromosome 6, *Article*, Mungall, A J, Palmer, S A, Sims *et al.* (See footnote 3 on p. 59 for full author list), **425**, 805
Transposon silencing in the *Caenorhabditis elegans* germ line by natural RNAi, *Letter to Nature*, Sijen, T, Plasterk, R H A, **426**, 310
genome shuffling, Molecular biology: Disruptive influence, *News and views*, Foiani, M, **423**, 234
genome stability, CUL-4 ubiquitin ligase maintains genome stability by restraining DNA-replication licensing, *Letter to Nature*, Zhong, W, Feng, H, Santiago, F E, Kipreos, E T, **423**, 885
genomics, A tangled problem, *Concepts*, Taylor, W R, Lin, K, **421**, 25
The DNA sequence and analysis of human chromosome 14, *Article*, Heilig, R, Eckenberg, R, Petit, J-L *et al.* (See footnote 1 on p. 59 for full author list), **421**, 601
Altered states, *News feature*, Dennis, C, **421**, 686
Genomics: A bumper harvest of potato genes, *News and views*, Surridge, C, **421**, 709
The latest genomics, straight to your phone, *News in brief*, **422**, 8
From genomics to proteomics, *Insight overview*, Tyers, M, Mann, M, **422**, 193
Plants breeders see benefit of growth in genomics, *News in brief*, **422**, 250
Genomics: Gene expression meets genetics, *News and views*, Darvasi, A, **422**, 269
Canada drives medical protein-structure hunt, *News in brief*, **422**, 462
The Delphic Boat: What Genomes Tell Us, Danchin, A, Quayle, A, *Book review by* Meyer, A, **422**, 564
Japanese lab turns the page on cDNA delivery, *News in brief*, **422**, 794
A recipe revolution, *News feature*, Cyranoski, D, **422**, 796
Pre-genomics training hinders Indian biotech, *Correspondence*, Ranganath, R M, **422**, 802
DNA: The secret of life, Watson, J D, Berry, A, Knopf, A A, *Book review by* Singer, M, **422**, 809
Revelations from a bread mould, *News and views*, Arnold, J, Hilton, N, **422**, 821
A vision for the future of genomics research, *Feature*, Collins, F S, Green, E D, Guttmacher, A E, Guyer, M S, **422**, 835
Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849
The genome sequence of the filamentous fungus *Neurospora crassa*, *Article*, Galagan, J E, Calvo, S E, Borkovich, K A, Selker, E U, Read, N D, Jaffe, D, FitzHugh, W, Ma, L-J, Smirnov, S, Purcell, S, Rehman, B, Elkins, T, Engels, R, Wang, S, Nielsen, C B, Butler, J, Endrizzi, M, Qui, D, Ianakiev, P, Bell-Pedersen, D, Nelson, M A, Werner-Washburne, M, Selitrennikoff, C P, Kinsey, J A, Braun, E L, Zelter, A, Schulte, U, Kothe, G O, Jedd, G, Mewes, W, Staben, C, Marcotte, E, Greenberg, D, Roy, A, Foley, K, Naylor, J, Stange-Thomann, N, Barrett, R, Gnerre, S, Kamal, M, Kamvysselis, M, Mauceli, E, Bielke, C, Rudd, S, Frishman, D, Krystofova, S, Rasmussen, C, Metzenberg, R L, Perkins, D D, Kroken, S, Cogoni, C, Macino, G, Catcheside, D, Li, W, Pratt, R J, Osmani, S A, DeSouza,

---

[4] **Full author list:** Wood, V, Gwilliam, R, Rajandream, M-A, Lyne, M, Lyne, R, Stewart, A, Sgouros, J, Peat, N, Hayles, J, Baker, S, Basham, D, Bowman, S, Brooks, K, Brown, D, Brown, S, Chillingworth, T, Churcher, C, Collins, M, Connor, R, Cronin, A, Davis, P, Feltwell, T, Fraser, A, Gentles, S, Goble, A, Hamlin, N, Harris, D, Hidalgo, J, Hodgson, G, Holroyd, S, Hornsby, T, Howarth, S, Huckle, E J, Hunt, S, Jagels, K, James, K, Jones, L, Jones, M, Leather, S, McDonald, S, McLean, J, Mooney, P, Moule, S, Mungall, K, Murphy, L, Niblett, D, Odell, C, Oliver, K, O'Neil, S, Pearson, D, Quall, M A, Rabbinowitsch, E, Rutherford, K, Rutter, S, Saunders, D, Seeger, K, Sharp, S, Skelton, J, Simmonds, M, Squares, R, Squares, S, Stevens, K, Taylor, K, Taylor, R G, Tivey, A, Walsh, S, Warren, T, Whitehead, S, Woodward, J, Volckaert, G, Aert, R, Robben, J, Grymonprez, B, Weltlens, I, Vanstreels, E, Rieger, M, Schafer, M, Muller-Auer, S, Gabel, C, Fuchs, M, Dusterhoft, A, Fritzc, C, Holzer, E, Moestl, D, Hilbert, H, Borzym, K, Langer, I, Beck, A, Lehrach, H, Reinhardt, R, Pohl, T M, Eger, P, Zimmermann, W, Wedler, H, Wambutt, R, Purnelle, B, Goffeau, A, Cadieu, E, Dreano, S, Gloux, S, Lelaure, V, Mottler, S, Galibert, F, Aves, S J, Xiang, Z, Hunt, C, Moore, K, Hurst, S M, Lucas, M, Rochet, M, Gaillardin, C, Tallada, V A, Garzon, A, Thode, G, Daga, R R, Cruzado, L, Jimenez, J, Sanchez, M, del Rey, F, Benito, J, Dominguez, A, Revuelta, J L, Moreno, S, Armstrong, J, Forsburg, S L, Cerutti, L, Lowe, T, McCombie, W R, Paulsen, I, Potashkin, J, Shpakovski, G V, Ussery, D, Barrell, B G, Nurse, P

C P C, Glass, L, Orbach, M J, Berglund, J A, Voelker, R, Yarden, O, Plamann, M, Seiler, S, Dunlap, J, Radford, A, Aramayo, R, Natvig, D O, Alex, L A, Mannhaupt, G, Ebbole, D J, Freitag, M, Paulsen, I, Sachs, M S, Lander, ES, Nusbaum, C, Birren, B, **422**, 859
Rice institute need strong support, *Opinion*, **423**, 1
Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
Biotechnology industry plateaus out in Europe, *News in brief*, **423**, 108
The evolutionary origin of complex features, *Article*, Lenski, R E, Ofria, C, Pennock, R T, Adami, C, **423**, 139
Genomics: Yeast rises again, *News and views*, Salzberg, S L, **423**, 233
Whitehead geneticist quits for broad remit at medical institute, *News in brief*, **423**, 910
Genomics: DNA double agent, *News and views*, Pilcher, H R, **425**, 143
With your genes? Take one of these, three times a day, *News feature*, Abbott, A, **425**, 760
Six is seventh, *News and views*, Grimwood, J, Schmutz, J, **425**, 775
Evolution: Ending incongruence, *News and views*, Gee, H, **425**, 782
This protein belongs to, *News feature*, Cyranoski, D, **426**, 10
Variation for all, *Opinion*, **426**, 739
Genomics: Compare and contrast, *News feature*, Dennis, C, **426**, 750
Neuroscience: Genomics on the brain, *News feature*, Abbott, A, **426**, 757
Feature: The International HapMap Project, *Feature*, The International HapMap Consortium, **426**, 789
genomics, comparative, Comparative genomics: Insecticide resistance in mosquito vectors, *Brief communication*, Weill, M, Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M, **423**, 136
Comparative genomics: Two worms are better than one, *News and views*, Blaxter, M, **426**, 395
genomics, polar, Genomes take pole position in the icy wastes, *News*, Hoag, H, **421**, 880
genotoxicity, The Suffering Gene: Environmental Threats to our Health, Burdon, R, *Book review by* Cox, R, **425**, 346
GENSAT, BAC-to-BAC images of the brain, *News and views*, Zoghbi, H Y, **425**, 907
A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917
Neuroscience: Genomics on the brain, *News feature*, Abbott, A, **426**, 757
geochemistry, Geochemistry: Zircons and the early Earth, *News and views*, Lincoln, T, **421**, 331
Geochemistry: Lost terrains of early Earth, *News and views*, Jacobsen, S B, **421**, 901
Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites, *Letter to Nature*, Bizzarro, M, Baker, J A, Haack, H, Ulfbeck, D, Rosing, M, **421**, 931
Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas, *Letter to Nature*, Sun, W, Bennett, V C, Eggins, S M, Kamenetsky, V S, Arculus, R J, **422**, 294
Obituary: Harmon Craig (1926–2003), *News and views*, Tlurekian, K K, **423**, 701
The 'zero charge' partitioning behaviour of noble gases during mantle melting, *Letter to Nature*, Brooker, R A, Du, Z, Blundy, J D, Kelley, S P, Allan, N L, Wood, B J, Chamorro, E M, Wartho, J-A, Purton, J A, **423**, 738
Earth science: Just add water, *News and views*, Hofmann, A W, **425**, 24
Geochemical evidence for efficient aquifer isolation over geological timeframes, *Letter to Nature*, Marty, B, Dewonck, S, France-Lanord, C, **425**, 55
Laboratory models of the thermal evolution of the mantle during rollback subduction, *Letter to Nature*, Kincaid, C, Griffiths, R W, **425**, 58
Cosmochemistry: Inside the cosmic blender, *News and views*, Halliday, A N, **425**, 137
Growth of early continental crust by partial melting of eclogite, *Letter to Nature*, Rapp, R P, Shimizu, N, Norman, M D, **425**, 605
geochronology, Geologists seek to put an end to blind dates, *News*, Clarke, T, **425**, 550
Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Faupl, P, Richter, W, Urbanek, C, **426**, 621
Reply: Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Hart, W K, WoldeGabriel, G, Katoh, S, Renne, P R, Suwa, G, Asfaw, B, White, T D, **426**, 622
geodynamics, Laboratory models of the thermal evolution of the mantle during rollback subduction, *Letter to Nature*, Kincaid, C, Griffiths, R W, **425**, 58
geographical variation, The double puzzle of diabetes, *News and views feature*, Diamond, J, **423**, 599
geography, Plate tectonics: America claims the Far East, *News and views*, Ball, P, **425**, 472
geological time, The Man Who Found Time: James Hutton and the Discovery of the Earth's Antiquity, Repcheck, J, *Book review by* Oldroyd, D R, **423**, 920
Geochemical evidence for efficient aquifer isolation over geological timeframes, *Letter to Nature*, Marty, B, Dewonck, S, France-Lanord, C, **425**, 55
geology, Earth science: Roots of the matter, *News and views*, Kennett, B L N, **422**, 674
Earth science: Core effect, *News and views*, Clarke, T, **423**, 496
Mantle thermal pulses below the Mid-Atlantic Ridge and temporal variations in the formation of oceanic lithosphere, *Article*, Bonatti, E, Ligi, M, Brunelli, D, Cipriani, A, Fabretti, P, Ferrante, V, Gasperini, L, Ottolini, L, **423**, 499
Homestake strikes gold in underground review, *News in brief*, **423**, 578
Evidence for low sulphate and anoxia in a mid-Proterozoic marine basin, *Letter to Nature*, Shen, Y, Knoll, A H, Walter, M R, **423**, 632
Ion charges to heart of Earth's periodic table, *News in brief*, **425**, 115
Geologists seek to put an end to blind dates, *News*, Clarke, T, **425**, 550
Planetary science: Less of an impact, *News and views*, Mason, B, **425**, 573
The Cruise of the Betsy with Rambles of a Geologist, Miller, H, Smout, T C, Taylor, M A, *Book review by* Janvier, P, **426**, 19
Geologists call for desalination of Gaza Strip's water, *News*, Mason, B, **426**, 110
geomagnetic fields, The lobster navigators, *News and views*, Alerstam, T, **421**, 27
True navigation and magnetic maps in spiny lobsters, *Letter to Nature*, Boles, L C, Lohmann, K J, **421**, 60
geometric frustration, Magic moments, *Concepts*, Ramirez, A P, **421**, 483
geometry, Optical alchemy, *Science in culture*, Martin, C, **424**, 133
geomorphology, Stabilizing feedbacks in glacier-bed erosion, *Letter to Nature*, Alley, R B, Lawson, D E, Larson, G J, Evenson, E B, Baker, G S, **424**, 758
Geomorphology: Nature, nurture and landscape, *News and views*, Molnar, P, **426**, 612
Coupled spatial variations in precipitation, *Letter to Nature*, Reiners, P W, Ehlers, T A, Mitchell, S G, Montgomery, D R, **426**, 645
Links between erosion, runoff variability and seismicity in the Taiwan orogen, *Letter to Nature*, Dadson, S J, Hovius, N, Chen, H, Dade, W B, Hsieh, M-L, Willett, S D, Hu, J-C, Horng, M-J, Chen, M-C, Stark, C P, Lague, D, Lin, J-C, **426**, 648
Decoupling of erosion and precipitation in the Himalayas, *Letter to Nature*, Burbank, D W, Blythe, A E, Putkonen, J, Pratt-Sitaula, B, Gabet, E, Oskin, M, Barros, A, Ojha, T P, **426**, 652
geophysics, Earth science: A slice of history, *News and views*, Asimow, P D, **423**, 491
Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge, *Letter to Nature*, Jokat, W, Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J, **423**, 962
Whole-mantle convection and the transition-zone water filter, *Hypothesis*, Bercovici, D, Karato, S-I, **425**, 39
Scientists split over regulations on sonar use, *News*, Dalton, R, **425**, 549
geoscience, Integration of geoscience and engineering in the oil industry — just a dream?, *Insight commentary*, Stankiewicz, B A, **426**, 360
GEOTAIL spacecraft, Cold ions in the hot plasma sheet of Earth's magnetotail, *Letter to Nature*, Seki, K, Hirahara, M, Hoshino, M, Terasawa, T, Elphic, R C, Saito, Y, Mukai, T, Hayakawa, H, Kojima, H, Matsumoto, H, **422**, 589
germ cells, Developmental biology: Germ-cell attraction, *News and views*, Kunwar, P S, Lehmann, R, **421**, 226
germ layer, An ancient role for nuclear β-catenin in the evolution of axial polarity and germ layer segregation, *Letter to Nature*, Wikramanayake, A H, Hong, M, Lee, P N, Pang, K, Byrum, C A, Bince, J M, Xu, R, Martindale, M Q, **426**, 446
germ plasm, Exclusion of germ plasm proteins from somatic lineages by cullin-dependent degradation, *Letter to Nature*, DeRenzo, C, Reese, K J, Seydoux, G, **424**, 685
germanium, Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **425**, 702
Corrigendum: Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **426**, 584
Germany, School space students take ground control, *News in brief*, **421**, 307
Germany, archaeology, Palaeolithic ivory sculptures from southwestern Germany and the origins of figurative art, *Letter to Nature*, Conard, N J, **426**, 830
Germany, DFG, Letters reveal scale of German agency's Nazi corruption, *News*, Schiermeier, Q, **425**, 650
Germany outs big faith in big guns as science ministry feels pinch, *News*, Schiermeier, Q, **426**, 372
Germany, FRM-II reactor, Neutron source powers ahead with weapons-grade uranium, *News*, Schiermeier, Q, **423**, 5
Germany, German Cancer Research Centre, Discontent grows as cancer institute remains rudderless, *News in brief*, **423**, 214
Cancer centre finally finds its head, *News in brief*, **426**, 596
Germany, high-energy physics, Japan matches price of German collider, *News in brief*, **421**, 778
Germany, history, Einstein in Berlin, Levenson, T, *Book review by* Dyson, F J, **422**, 811
Massive cathedral testifies to ancient emperor's might, *News in brief*, **423**, 676
Germany, Humboldt University, Berlin's university crisis, *Opinion*, **423**, 101
Germany, Max Planck Institute for Plant Breeding and Research, Axeing of website article sparks row at Max Planck, *News*, Abbott, A, **422**, 460
Germany, Max Planck Society, Max Planck plans double blow to chemistry, *News*, Schiermeier, Q, **422**, 105
Max Planck: closures will damage German science, *Correspondence*, Wasserburg, G J, McKenzie, D P, **422**, 469
Max Planck: cuts were decided years ago, *Correspondence*, Wirsing, B, **422**, 469
Planck makes permanent posts, *News*, Schiermeier, Q, **425**, 441
Open access wins German support, *News*, Schiermeier, Q, **425**, 752
Germany outs big faith in big guns as science ministry feels pinch, *News*, Schiermeier, Q, **426**, 372
Germany, open access, Open access wins German support, *News*, Schiermeier, Q, **425**, 752
Germany, physics, Spending spree gives German physics a high-energy boost, *News in brief*, **421**, 682
Leading edge lasers, *Correspondence*, Chattopadhyay, S, **422**, 469
Germany, research funding, Berlin's university crisis, *Opinion*, **423**, 101
Pros and cons of centralization, *Opinion*, **423**, 787
German reform plan arouses fear for autonomy, *News*, Schiermeier, Q, **423**, 790
Germany outs big faith in big guns as science ministry feels pinch, *News*, Schiermeier, Q, **426**, 372
Germany, SARS, China and Germany join forces over SARS, *News*, Abbott, A, **423**, 791
Germany, scientific misconduct, Göttingen rapped by German funding agency, *News in brief*, **421**, 778
Stench of fraud in German odour lab as paper cries foul, *News in brief*, **422**, 794
Survey reveals mixed feelings over scientific misconduct, *News*, Abbott, A, Graf, P, **424**, 117
Whistles blow in vain on bad practice in German research, *News*, Abbott, A, **426**, 218
Germany, universities, University faces up to wartime use of slaves, *News*, Abbott, A, **422**, 792
Berlin's university crisis, *Opinion*, **423**, 101
Pros and cons of centralization, *Opinion*, **423**, 787
German reform plan arouses fear for autonomy, *News*, Schiermeier, Q, **423**, 790
Standing room only as German protest lectures go on and on, *News in brief*, **426**, 596
Germany, Volkswagen Foundation, German foundation calls for African research partners, *News in brief*, **424**, 9
germline proteins, Exclusion of germ plasm proteins from somatic lineages by cullin-dependent degradation, *Letter to Nature*, DeRenzo, C, Reese, K J, Seydoux, G, **424**, 685
ghostwort, Ecology: A liverwort cheat, *News and views*, Lincoln, T, **422**, 826
giant pulses, Nanosecond radio bursts from strong plasma turbulence in the Crab nebula, *Letter to Nature*, Hankins, T H, Kern, J S, Weatherall, J C, Ellek, J A, **422**, 141
Giardia intestinalis, Essence of mitochondria, *News and views*, Henze, K, Martin, W, **426**, 127
Mitochondrial remnant organelles of *Giardia* function in iron-sulphur protein maturation, *Letter to Nature*, Tovar, J, Leon-Avila, G, Sanchez, L B, Sutak, R, Tachezy, J, van der Glezen, M, Hernández, M, Müller, M, Lucocq, J M, **426**, 172
gibberellins, Auxin promotes *Arabidopsis* root growth by modulating gibberellin response, *Letter to Nature*, Fu, X, Harberd, N P, **421**, 740
gibbons, Biomechanics: With a swing, *News and views*, Whitfield, J, **422**, 829
Gibraltar, Primatologist rocks Gibraltar by quitting over macaque cull, *News*, Schiermeier, Q, **426**, 111
Gingko, The missing link in Ginkgo evolution, *Brief communication*, Zhou, Z, Zheng, S, **423**, 821
Ginzburg, Vitaly, Super-cool theories secure physics prize, *News*, Tomlin, S, **425**, 548
glacial cycles, Homogeneous climate variability across East Antarctica over the past three glacial cycles, *Letter to Nature*, Watanabe, O, Jouzel, J, Johnsen, S, Parrenin, F, Shoji, H, Yoshida, N, **422**, 509
glaciation, Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO_2, *Letter to Nature*, DeConto, R M, Pollard, D, **421**, 245
Snowball Earth, Nisbet, E, *Book review by* Walker, G, **422**, 812
Global change: Ups and downs in the Red Sea, *News and views*, Sirocko, F, **423**, 813
Sea-level fluctuations during the last glacial cycle, *Letter to Nature*, Siddall, M, Rohling, E J, Almogi-Labin, A, Hemleben, Ch, Meischner, D, Schmelzer, I, Smeed, D A, **423**, 853
Stable isotopic evidence for methane seeps in Neoproterozoic postglacial cap carbonates, *Letter to Nature*, Jiang, G, Kennedy, M J, Christie-Blick, N, **426**, 822
glaciers, NASA feels the heat as glacier pictures cause unrest in Peru, *News in brief*, **422**, 794
Earth science: Glaciers at work, *News and views*, Piotrowski, J A, **424**, 737
Stabilizing feedbacks in glacier-bed erosion, *Letter to Nature*, Alley, R B, Lawson, D E, Larson, G J, Evenson, E B, Baker, G S, **424**, 758
Tidewater glaciers move at their own pace, *Correspondence*, Pfeffer, W T, **426**, 602
glaciology, Glaciology: Thin ice, *News and views*, Ball, P, **426**, 28
GLAMAP-2000 project, Climate change: Chilled out in the ice-age Atlantic, *News and views*, Mix, A C, **425**, 32
glass, To the heart of glass, *News feature*, Ball, P, **421**, 783
Phonon interpretation of the 'boson peak' in supercooled liquids, *Letter to Nature*, Grigera, T S, Martin-Mayor, V, Parisi, G, Verrocchio, P, **422**, 289
Crystal: clear difference from glass, *Correspondence*, Moreira, B C, **423**, 917

Glass patterns, Neural correlates of implied motion, *Letter to Nature*, Krekelberg, B, Dannenberg, S, Hoffman, K-P, Bremmer, F, Ross, J, **424**, 674
glassware, Goodbye, flat biology?, *Opinion*, **424**, 861
  Biology's new dimension, *News feature*, Abbott, A, **424**, 870
GlaxoSmithKline, Kids' cartoon faces probe over drug tie-in deal, *News in brief*, **424**, 869
Gleevec, Cancer: Escape from inhibition, *News and views*, Courtneidge, S A, **422**, 827
glia cells, Truncated TrkB-T1 mediates neurotrophin-evoked calcium signalling in glia cells, *Letter to Nature*, Rose, C R, Blum, R, Pichler, B, Lepier, A, Kafitz, K W, Konnerth, A, **426**, 74
global carbon cycle, Global carbon cycle: Metabolic balance of the open sea, *Brief communication*, Karl, D M, Laws, E A, Morris, P, Williams, P J l, Emerson, S, **426**, 32
global change, Global change: Leads, lags and the tropics, *News and views*, Dunbar, R B, **421**, 121
  Magnitude and timing of temperature change in the Indo-Pacific warm pool during deglaciation, *Letter to Nature*, Visser, K, Thunell, R, Stott, L, **421**, 152
  Global change: Monsoon linkages, *News and views*, Zahn, R, **421**, 324
  Monsoon linkages, *News and views*, Zahn, R, **421**, 324
  Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean, *Letter to Nature*, Gupta, A K, Anderson, D M, Overpeck, J T, **421**, 354
  Global change: Dishing the dirt on coral reefs, *News and views*, Cole, J, **421**, 705
  Global change: Ups and downs in the Red Sea, *News and views*, Sirocko, F, **423**, 813
  Sea-level fluctuations during the last glacial cycle, *Letter to Nature*, Siddall, M, Rohling, E J, Almogi-Labin, A, Hemleben, Ch, Meischner, D, Schmelzer, I, Smeed, D A, **423**, 853
  Global change: The past and future of El Niño, *News and views*, Tudhope, S, Collins, M, **424**, 261
  El Niño/Southern Oscillation and tropical Pacific climate during the last millennium, *Article*, Cobb, K M, Charles, C D, Cheng, H, Edwards, R L, **424**, 271
  Global change: South dials north, *News and views*, Stocker, T F, **424**, 496
  Global change: The heat on Lake Tanganyika, *News and views*, Verschuren, D, **424**, 731
  Global change: Probing early atmospheres, *News and views*, Mojzsis, S J, **425**, 249
  Global change: Eruptions linked to El Niño, *News and views*, de Silva, S, **426**, 239
  Proxy evidence of an El Niño-lke response to volcanic forcing, *Letter to Nature*, Adams, J B, Mann, M E, Ammann, C M, **426**, 274
  Climate: Warmth, wind and water, *News and views*, Lincoln, T, **426**, 514
Global Change in the Hydrological Cycle (GLOWA), African project seeks model solution to water shortage, *News*, Schiermeier, Q, **424**, 359
Global Climate and Energy Project, Fuel for thought, *Commentary*, Ritson, D, **421**, 575
  No strings attached to $225m sponsorship, *Correspondence*, Kruger, C, Orr Jr, F M, **422**, 15
global health research, Tapping the power of small institutions, *Commentary*, Keusch, G T, Medlin, C A, **422**, 561
Global Land Cover, Earth maps put environment treaties into perspective, *News in brief*, **426**, 489
Global Positioning System, Reduced drag coefficient for high wind speeds in tropical cyclones, *Article*, Powell, M D, Vickery, P J, Reinhold, T A, **422**, 279
  Quake triggers research expedition, *News*, Butler, D, **423**, 673
  Europe's global navigation system heads east, *News in brief*, **425**, 337
global public goods, Tapping the power of small institutions, *Commentary*, Keusch, G T, Medlin, C A, **422**, 561
global warming, A globally coherent fingerprint of climate change impacts across natural systems, *Article*, Parmesan, C, Yohe, G, **421**, 37
  Fingerprints of global warming on wild animals and plants, *Letter to Nature*, Root, T L, Price, J T, Hall, K R, Schneider, S H, Rosenzweig, C, Pounds, J A, **421**, 57
  Climate come-uppance delayed, *Editorial*, **421**, 195
  Senators turn up heat on greenhouse gases, *News in brief*, **421**, 202
  Liability for climate change, *Commentary*, Allen, M, **421**, 891
  Yes, we have no energy policy, *Editorial*, **422**, 1
  Protecting the Ozone Layer: Science and Strategy, Parson, E A, *Book review by* Herrick, C, **422**, 664
  Protecting the Ozone Layer: The United Nations History, Anderson, S O, Sarma, K M, *Book review by* Herrick, C, **422**, 664
  Climate change: Hot tips on temperature, *News and views*, Clarke, T, **423**, 598
  Gas leak!, *News feature*, Schiermeier, Q, **423**, 681
  Researchers rattled as Kyoto Protocol hangs in the balance, *News*, Schiermeier, Q, **423**, 792
  Journal editor quits hot seat over global-warming study, *News in brief*, **424**, 606
  Welcome to the Anthropocene, *Opinion*, **424**, 709
  Climate changes decreases aquatic ecosystem productivity of Lake Tanganyika, Africa, *Letter to Nature*, O'Reilly, C M, Alin, S R, Plisnier, P-D, Cohen, A S, McKee, B A, **424**, 766
  Heatwave underlines climate-model failures, *News*, Butler, D, **424**, 867
  Possible or probable?, *Concepts*, Allen, A R, **425**, 242
  Too hot to handle, *News feature*, Whitfield, J, **425**, 338
  Tropical climate study gives view of global heatwave, *News in brief*, **425**, 892
  High interannual variability of sea ice thickness in the Arctic region, *Letter to Nature*, Laxon, S, Peacock, N, Smith, D, **425**, 947
  Atmospheric chemistry: Iron injection, *News and views*, Ball, P, **426**, 242
  Climate study highlights inadequacy of emissions cuts, *News*, Schiermeier, Q, **426**, 486
  Disillusionment and doubt undermine Kyoto's birthday bash, *News*, Schiermeier, Q, **426**, 742
  Climate change: The long road from Kyoto, *News feature*, Schiermeier, Q, **426**, 756
  Eight Preposterous Propositions: From the Genetics of Homosexuality to the Benefits of Global Warming, Ehrlich, R, *Book review by* Gratzer, W, **426**, 766
  A change in the freshwater balance of the Atlantic Ocean over the past four decades, *Letter to Nature*, Curry, R, Dickson, B, Yashayaev, I, **426**, 826
GloFish, GloFish casts light on murky policing of transgenic animals, *News*, Knight, J, **426**, 372
  California gives red light to sale of transgenic GloFish, *News in brief*, **426**, 596
Glossopteris, Palaeontology: Swimming sperm in an extinct Gondwanan plant, *Brief communication*, Nishida, H, Pigg, K B, Rigby, J F, **422**, 396
glottochronology, Trees of life and language, *News and views*, Searls, D B, **426**, 391
glucokinase, BAD and glucokinase reside in a mitochondrial complex that integrates glycolysis and apoptosis, *Letter to Nature*, Danial, N N, Gramm, C F, Scorrano, L, Zhang, C-Y, Krauss, S, Ranger, A M, Datta, S R, Greenberg, M E, Licklider, L J, Lowell, B B, Gygi, S P, Korsmeyer, S J, **424**, 952
gluconeogenesis, Insulin-regulated hepatic gluconeogenesis through FOXO1-PGC-1α interaction, *Letter to Nature*, Puigserver, P, Rhee, J, Donovan, J, Walkey, C J, Yoon, J C, Oriente, F, Kitamura, Y, Altomonte, J, Dong, H, Accili, D, Spiegelman, B M, **423**, 550
glucose, Diabetes: Molecular suspect fingered, *News and views*, Thomas, C, **424**, 265
  Differential regulation of EIN3 stability by glucose and ethylene signalling in plants, *Letter to Nature*, Yanagisawa, S, Yoo, S-D, Sheen, J, **425**, 521
glucose metabolism, Cell biology: Metabolism meets death, *News and views*, Downward, J, **424**, 896
glucose, transport, The exocyst complex is required for targeting of Glut4 to the plasma membrane by insulin, *Letter to Nature*, Inoue, M, Chang, L, Hwang, J, Chiang, S-H, Saltiel, A R, **422**, 629
  Functional cloning of TUG as a regulator of GLUT4 glucose transporter trafficking, *Letter to Nature*, Bogan, J S, Hendon, N, McKee, A E, Tsao, T-S, Lodish, H F, **425**, 727
GLUT4 transporter, Functional cloning of TUG as a regulator of GLUT4 glucose transporter trafficking, *Letter to Nature*, Bogan, J S, Hendon, N, McKee, A E, Tsao, T-S, Lodish, H F, **425**, 727
glutamate, Control of dynamic CFTR selectivity by glutamate and ATP in epithelial cells, *Letter to Nature*, Reddy, M M, Quinton, P M, **423**, 756
  Induction of dendritic spines by an extracellular domain of AMPA receptor subunit GluR2, *Letter to Nature*, Passafaro, M, Nakagawa, T, Sala, C, Sheng, M, **424**, 677
  Direct modulation of synaptic vesicle priming by GABA$_B$ receptor activation at a glutamatergic synapse, *Letter to Nature*, Sakaba, T, Neher, E, **424**, 775
glutamate receptors, Glutamate-receptor-mediated encoding and retrieval of paired-associate learning, *Letter to Nature*, Day, M, Langston, R, Morris, R G M, **424**, 205
glutelins, RNA interference: Cereal adultery, *News and views*, Surridge, C, **423**, 390
Glycera, Biomaterials: Zinc hardens worm jaws, *News and views*, Ball, P, **424**, 630
glycine, Glycine binding primes NMDA receptor internalization, *Letter to Nature*, Nong, Y, Huang, Y-Q, Ju, W, Kalia, L V, Ahmadian, G, Wang, Y T, Salter, M W, **422**, 302
glycobiology, Sweet revenge, *News feature*, Dennis, C, **423**, 580
glycogen synthase kinases, Cdc42 regulates GSK-3β and adenomatous polyposis coli to control cell polarity, *Letter to Nature*, Etienne-Manneville, S, Hall, A, **421**, 753
  GSK-3α regulates production of Alzheimer's disease amyloid-β peptides, *Letter to Nature*, Phiel, C J, Wilson, C A, Lee, V M-Y, Klein, P S, **423**, 435
glycolysis, BAD and glucokinase reside in a mitochondrial complex that integrates glycolysis and apoptosis, *Letter to Nature*, Danial, N N, Gramm, C F, Scorrano, L, Zhang, C-Y, Krauss, S, Ranger, A M, Datta, S R, Greenberg, M E, Licklider, L J, Lowell, B B, Gygi, S P, Korsmeyer, S J, **424**, 952
glycosaminoglycans, *Caenorhabditis elegans* early embryogenesis and vulval morphogenesis depend on chondroitin biosynthesis, *Letter to Nature*, Hwang, H-Y, Olson, S K, Esko, J D, Horvitz, H R, **423**, 439
  Chondroitin proteoglycans are involved in cell division of *Caenorhabditis elegans*, *Letter to Nature*, Mizuguchi, S, Uyama, T, Kitagawa, H, Nomura, K H, Dejima, K, Gengyo, Ando, K, Mitani, S, Sugahara, K, Nomura, K, **423**, 443
gold mining, Gold-mine conversion eases closer, *News*, Brumfiel, G, **424**, 713
Goldman-Rakic, Patricia S., Obituary: Patricia S. Goldman-Rakic (1937–2003), *News and views*, Nestler, E J, **425**, 471
Golgi apparatus, Cell biology: Golgi glue, *News and views*, Heemels, M-T, **424**, 265
  Phospholipase Cγ activates Ras on the Golgi apparatus by means of RasGRP1, *Letter to Nature*, Bivona, T G, Pérez de Castro, I, Ahearn, I M, Grana, T M, Chiu, V K, Lockyer, P J, Cullen, P J, Pellicer, A, Cox, A D, Philips, M R, **424**, 694
Golgi bodies, Evolutionary biology: Golgi traces revealed, *News and views*, Pearson, H, **424**, 1011
Gondwana, Palaeontology: Swimming sperm in an extinct Gondwanan plant, *Brief communication*, Nishida, H, Pigg, K B, Rigby, J F, **422**, 396
  Large Cretaceous sphenodontian from Patagonia provides insight into lepidosaur evolution in Gondwana, *Letter to Nature*, Apesteguia, S, Novas, F E, **425**, 609
gorillas, Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551
  Catastrophic ape decline in western equatorial Africa, *Letter to Nature*, Walsh, P D, Abernethy, K A, Bermejo, M, Beyers, R, De Wachter, P, Ella Akou, M, Huijbregts, B, Idiata Mambounga, D, Kamdem Toham, A, Kilbourn, A M, Lahm, S A, Latour, S, Maisels, F, Mbina, C, Mihindou, Y, Ndong Obiang, S, Ntsame Effa, E, Starkey, M P, Telfer, P, Thibault, M, Tutin, C E G, White, L J T, Wilkie, D S, **422**, 611
  Gorilla count resumes as tensions ease in central African forests, *News in brief*, **425**, 652
Gorlin's syndrome, Widespread requirement for Hedgehog ligand stimulation in growth of digestive tract tumours, *Letter to Nature*, Berman, D M, Karhadkar, S S, Maitra, A, Montes de Oca, R, Gerstenblith, M R, Briggs, K, Parker, A R, Shimada, Y, Eshleman, J R, Watkins, D N, Beachy, P A, **425**, 846
governance, Governance and the loss of biodiversity, *Letter to Nature*, Smith, R J, Muir, R D J, Walpole, M J, Balmford, A, Leader-Williams, N, **426**, 67
Grand Challenges in Global Health initiative, Gates ploughs millions into plan for assault on killer diseases, *News*, Butler, D, **421**, 461
Granger, Clive, Economics prize for duo who resolved random results, *News*, Ball, P, **425**, 651
granular flow, Kinematics: Wide shear zones in granular bulk flow, *Brief communication*, Fenistein, D, van Hecke, M, **425**, 256
granular liquids, Think outside the sandbox, *News feature*, Buchanan, M, **425**, 556
granular materials, Granular materials: Nut theory gets a shake-down, *News and views*, Ball, P, **421**, 331
  Logarithmic rate dependence of force networks in sheared granular materials, *Letter to Nature*, Hartley, R R, Behringer, R P, **421**, 928
  Granular materials: Shaken sand — a granular fluid?, *News and views*, Umbanhowar, P, **424**, 886
  Observing brownian motion in vibration-fluidized granular matter, *Letter to Nature*, D'Anna, G, Mayor, P, Barrat, A, Loreto, V, Nori, F, **424**, 909
granular systems, Kinetics: Gaussian statistics in granular gases, *Brief communication*, Baxter, G W, Olafsen, J S, **425**, 680
graphene, Materials science: Mind the gap, *News and views*, Morris, J, **422**, 674
graphite, Materials: Ultrahard polycrystalline diamond from graphite, *Brief communication*, Irifune, T, Kurio, A, Sakamoto, S, Inoue, T, Sumiya, H, **421**, 599
  Materials science: Mind the gap, *News and views*, Morris, J, **422**, 674
GRASP65, Cell biology: Golgi glue, *News and views*, Heemels, M-T, **424**, 265
Graves' disease, Association of the T-cell regulatory gene *CTLA4* with susceptibility to autoimmune disease, *Article*, Ueda, H, Howson, J M M, Esposito, L, Heward, J, Snook, H, Chamberlain, G, Rainbow, D B, Hunter, K M D, Smith, A N, Di Genova, G, Herr, M H, Dahlman, I, Payne, F, Smyth, D, Lowe, C, Twells, R C J, Howlett, S, Healy, B, Nutland, S, Rance, H E, Everett, V, Smink, L J, Lam, A C, Cordell, H J, Walker, N M, Bordin, C, Hulme, J, Motzo, C, Cucca, F, Hess, J F, Metzker, M L, Rogers, J, Gregory, S, Allahabadia, A, Nithiyananthan, R, Tuomilehto-Wolf, E, Tuomilehto, J, Bingley, P, Gillespie, K M, Undlien, D E, Ronningen, K S, Guja, C, Ionescu-Tîrgovişte, C, Savage, D A, Maxwell, A P, Carson, D J, Patterson, C C, Franklyn, J A, Clayton, D G, Peterson, L B, Wicker, L S, Todd, J A, Gough, S C L, **423**, 506
Gravettian period, Portrait of the Artist as a Child: The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context, Zilhao, J, Trinkaus, E, *Book review by* Bahn, P, **424**, 490
gravitational lenses, Astronomy: Wide-angle lens, *News and views*, Wambsganss, J, **426**, 781
  A gravitationally lensed quasar with quadruple images separated by 14.62 arcseconds, *Letter to Nature*, Inada, N, Oguri, M, Pindor, B, Hennawi, J F, Chiu, K, Zheng, W, Ichikawa, S-I, Gregg, M D, Becker, R H, Suto, Y, Strauss, M A, Turner, E L, Keeton, C R, Annis, J, Castander, F J, Eisenstein, D J, Frieman, J A, Fukugita, M, Gunn, J E, Johnston, D E, Kent, S M, Nichol, R C, Richards, G T, Rix, H-W, Sheldon, E S, Bahcall, N A, Brinkmann, J, Ivezic, Z, Lamb, D Q, McKay, T A, Schneider, D P, York, D G, **426**, 810
gravitational waves, Gravitational waves remain out of reach, *News in brief*, **421**, 778
  Astrophysics: Testing time for gravity, *News and views*, van den Heuvel, E P J, **426**, 504
  An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system, *Letter to Nature*, Burgay, M, D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R, **426**, 531
gravity, Gravity experiment sparks spat between physicists, *News*, Brumfiel, G, **421**, 198

Quantum gravity: The quantum of area?, *News and views*, Baez, J, **421**, 702

The weight of expectation, *News and views*, Hoyle, C D, **421**, 899

Upper limits to submillimetre-range forces from extra space-time dimensions, *Letter to Nature*, Long, J C, Chan, H W, Churnside, A B, Gulbis, E A, Varney, M C M, Price, J C, **421**, 922

An extragalactic supernebula confined by gravity, *Letter to Nature*, Turner, J L, Beck, S C, Crosthwaite, L P, Larkin, J E, McLean, I S, Meier, D S, **423**, 621

Gravity map gets to grips with planet's pull, *News in brief*, **424**, 480

Quantum gravity: An astrophysical constraint, *News and views*, Carroll, S, **424**, 1007

A strong astrophysical constraint on the violation of special relativity by quantum gravity, *Letter to Nature*, Jacobson, T, Liberati, S, Mattingly, D, **424**, 1019

Gravity Probe B, Unstoppable force, *News feature*, Reichhardt, T, **426**, 380

Gravity Recovery and Climate Experiment (GRACE), Gravity map gets to grips with planet's pull, *News in brief*, **424**, 480

gravity waves, Atmospheric physics: Breaking waves, *News and views*, Lincoln, T, **426**, 402

grayling, Corrigendum: Contemporary fisherian life-history evolution in small salmonid populations, *Letter to Nature*, Koskinen, M T, Haugen, T O, Primmer, C R, **421**, 656

GRB021004, Structure in the early afterglow light curve of the γ-ray burst of 29 March 2003, *Letter to Nature*, Uemura, M, Kato, T, Ishioka, R, Yamaoka, H, Monard, B, Nogami, D, Maehara, H, Sugie, A, Takahashi, S, **423**, 843

GRB030329, The bright optical afterglow of the nearby γ-ray burst of 29 March 2003, *Letter to Nature*, Price, P A, Fox, D W, Kulkarni, S R, Peterson, B A, Schmidt, B P, Soderberg, A M, Yost, S A, Berger, E, Djorgovski, S G, Frail, D A, Harrison, F A, Sari, R, Blain, A W, Chapman, S C, **423**, 844

A common origin for cosmic explosions inferred from calorimetry of GRB0303929, *Letter to Nature*, Berger, E, Kulkarni, S R, Pooley, G, Frail, D A, McIntyre, V, Wark, R M, Sari, R, Soderberg, A M, Fox, D W, Yost, S, Price, P A, **426**, 154

Evolution of the polarization of the optical afterglow of the γ-ray burst GRB030329, *Letter to Nature*, Greiner, J, Klose, S, Reinsch, K, Schmid, H M, Sari, R, Hartmann, D H, Kouveliotou, C, Rau, A, Palazzi, E, Straubmeier, C, Stecklum, B, Zharikov, S, Tovmassian, G, Barnbanter, O, Ries, C, Jehin, E, Henden, A, Kaas, A A, Grav, T, Hjorth, J, Pedersen, H, Wijers, R A M J, Kaufer, A, Park, H-S, Williams, G, Reimer, O, **426**, 157

Great Apes Survival Project (GRASP), Facing up to endangered apes, *Opinion*, **426**, 369

Great Barrier Reef, Global change: Dishing the dirt on coral reefs, *News and views*, Cole, J, **421**, 705

Coral record of increased sediment flux in the inner Great Barrier Reef since European settlement, *Letter to Nature*, McCulloch, M, Fallon, S, Wyndham, T, Hendy, E, Lough, J, Barnes, D, **421**, 727

Ecology: Oxygen needs in the corals, *News and views*, Whitfield, J, **425**, 364

Great Pyramids, Archaeology: Propaganda of the pyramids, *News and views*, Diamond, J, **424**, 891

great salinity anomalies, Oceanography: Fresh input, *News and views*, Lincoln, T, **423**, 820

great tits, Birds sing at a higher pitch in urban noise, *Brief communication*, Slabbekoorn, H, Peet, M, **424**, 267

green chemistry, A recyclable catalyst that precipitates at the end of the reaction, *Letter to Nature*, Dioumaev, V K, Bullock, R M, **424**, 530

green fluorescent protein, Molecular biology: Dynamics of condensed DNA, *News and views*, Heinrichs, A, **421**, 597

Global analysis of protein localization in budding yeast, *Article*, Huh, W-K, Falvo, J V, Gerke, L C, Carroll, A S, Howson, R W, Weissman, J S, O'Shea, E K, **425**, 686

Functional cloning of TUG as a regulator of GLUT4 glucose transporter trafficking, *Letter to Nature*, Bogan, J S, Hendon, N, McKee, A E, Tsao, T-S, Lodish, H F, **425**, 727

greenhouse gases, Climate come-uppance delayed, *Editorial*, **421**, 195

Senators turn up heat on greenhouse gases, *News in brief*, **421**, 202

Palaeoclimatology: Cooling a continent, *News and views*, Barrett, P, **421**, 221

Rapid Cenozoic glaciation of Antarctica induced by declining atmospheric CO$_2$, *Letter to Nature*, DeConto, R M, Pollard, D, **421**, 245

Fuel for thought, *Commentary*, Ritson, D, **421**, 575

Severe summertime flooding Europe, *Brief communication*, Christensen, J H, Christensen, O B, **421**, 805

No strings attached to \$225m sponsorship, *Correspondence*, Kruger, C, Orr Jr, F M, **422**, 15

Detection of human influence on sea-level pressure, *Letter to Nature*, Gillett, N P, Zwiers, F W, Weaver, A J, Stott, P A, **422**, 292

Impact of urbanization and land use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **423**, 528

Virtual solution to carbon cost of conferences, *Correspondence*, Reay, D S, **424**, 251

Global change: Probing early atmospheres, *News and views*, Mojzsis, S J, **425**, 249

High CO$_2$ levels in the Proterozoic atmosphere estimated from analyses of individual microfossils, *Letter to Nature*, Kaufman, A J, Xiao, S, **425**, 279

A conspicuous nickel protein in microbial mats that oxidize methane anerobically, *Letter to Nature*, Kruger, M, Meyerdierks, A, Glockner, F O, Amann, R, Widdel, F, Kube, M, Reinhardt, R, Kahnt, J, Bocher, R, Thauer, R K, Shima, S, **426**, 878

GreenSea, The oresmen, *News feature*, Schiermeier, Q, **421**, 109

GreenSea's interest in fertilizing sea with iron, *Correspondence*, Rice, M L, **421**, 786

Grids, Tomorrow's computing today, *News feature*, Butler, D, **422**, 799

grizzly bears, Grizzly end for environmentalists' bear project, *News in brief*, **424**, 716

ground-reaction force, A catapult action for rapid limb protraction, *Brief communication*, Wilson, A M, Watson, J C, Lichtwark, G A, **421**, 35

groundwater pollution, Detoxification on vinyl chloride to ethene coupled to growth of an anaerobic bacterium, *Letter to Nature*, He, J, Ritalahti, K M, Yang, K-L, Koenigsberg, S S, Löffler, F E, **424**, 62

growth, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123

Growth dynamics underlying petal shape and asymmetry, *Letter to Nature*, Rolland-Lagan, A-G, Bangham, J A, Coen, E, **422**, 161

growth factors, Injection of adult neurospheres induces recovery in a chronic model of multiple sclerosis, *Article*, Pluchino, S, Quattrini, A, Brambilla, E, Gritti, A, Salani, G, Dina, G, Galli, R, Del Carro, U, Amadio, S, Bergami, A, Furlan, R, Comi, G, Vescovi, A L, Martino, G, **422**, 688

growth plate, Developmental regulation of the growth plate, *Insight review article*, Kronenberg, H M, **423**, 332

Grunsfeld, John, Second astronaut given NASA's top science job, *News in brief*, **425**, 115

Flight veteran embraces NASA's science wing, *News*, Reichhardt, T, **425**, 229

***Gscl* gene**, A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917

GTP-binding proteins, Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor, *Article*, Renault, L, Guibert, B, Cherfils, J, **426**, 525

guanine nucleotide exchange factors, Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor, *Article*, Renault, L, Guibert, B, Cherfils, J, **426**, 525

guitars, Acoustics: Guitar feedback tamed, *News and views*, Ball, P, **423**, 702

Gulf Stream, The current climate, *Concepts*, Rahmstorf, S, **421**, 699

Gulf War syndrome, US army survey targets Gulf War syndrome, *News*, Knight, J, **421**, 463

guppies, Directional postcopulatory sexual selection revealed by artificial insemination, *Letter to Nature*, Evans, J P, Zane, L, Francescato, S, Pilastro, A, **421**, 360

Gutenberg discontinuity, Global anisotropy and the thickness of continents, *Letter to Nature*, Gung, Y, Panning, M, Romanowicz, B, **422**, 707

gymnosperms, The missing link in Ginkgo evolution, *Brief communication*, Zhou, Z, Zheng, S, **423**, 821

H2AX protein, Developmental biology: The trouble with the sex body, *News and views*, Lincoln, T, **422**, 677

Ha-Ras protein, Signal transduction: Life on Mars, cellularly speaking, *News and views*, Di Fiore, P P, **424**, 624

HAART therapy, Trial suggests vaccines could aid HIV therapy, *News*, Check, E, **422**, 650

habitat, Fingerprints of global warming on wild animals and plants, *Letter to Nature*, Root, T L, Price, J T, Hall, K R, Schneider, S H, Rosenzweig, C, Pounds, J A, **421**, 57

Hadju, Janos, Into uncharted waters — Janos Hadju, *Lifelines*, **423**, 386

Haeckel, Ernst, Complexity may teach us a simple lesson, *Correspondence*, Sierk, M, **421**, 573

Haeckel's literary hopes dashed by materialism?, *Correspondence*, Hossfeld, U, Nöthlich, R, Olsson, L, **424**, 875

haem, Haem can bind to and inhibit mammalian calcium-dependent Slo1 BK channels, *Letter to Nature*, Tang, X D, Xu, R, Reynolds, M F, Garcia, M L, Heinemann, S H, Hoshi, T, **425**, 531

An atypical haem in the cytochrome b_6f complex, *Article*, Stroebel, D, Choquet, Y, Popot, J-L, Picot, D, **426**, 413

haematology, Cardiovascular biology: Chilled-out platelets, *News and views*, Pearson, H, **421**, 331

haematopoiesis, Haematopoietic stem cells retain long-term repopulating activity and multipotency in the absence of stem-cell leukaemia SCL/*tal-1* gene, *Letter to Nature*, Mikkola, H K A, Klintman, J, Yang, H, Hock, H, Schlaeger, T M, Fujiwara, Y, Orkin, S H, **421**, 547

haematopoietic stem cells, Cell fusion is the principal source of bone-marrow-derived hepatocytes, *Letter to Nature*, Wang, X, Willenbring, H, Akkari, Y, Torimaru, Y, Foster, M, Al-Dhalimy, M, Lagasse, E, Finegold, M, Olson, S, Grompe, M, **422**, 897

Stem cells: Self-renewal writ in blood, *News and views*, Dick, J E, **423**, 231

Bmi-1 determines the proliferative capacity of normal and leukaemic stem cells, *Article*, Lessard, J, Sauvageau, G, **423**, 255

Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells, *Letter to Nature*, Park, I-K, ian, D, Kiel, M, Becker, M W, Pihalja, M, Weissman, I L, Morrison, S J, Clarke, M F, **423**, 302

A role for Wnt signalling in self-renewal of haematopoietic stem cells, *Article*, Reya, T, Duncan, A W, Ailles, L, Domen, J, Scherer, D C, Willert, K, Hintz, L, Nusse, R, Weissman, I L, **423**, 409

Identification of the haematopoietic stem cell niche and control of the niche size, *Letter to Nature*, Zhang, J, Niu, C, Ye, L, Huang, H, He, X, Tong, W-G, Ross, J, Haug, J, Johnson, T, Feng, J Q, Harris, S, Wiedemann, L M, Mishina, Y, Li, L, **425**, 836

Osteoblastic cells regulate the haematopoietic stem cell niche, *Letter to Nature*, Calvi, L M, Adams, G B, Weibrecht, K W, Weber, J M, Olson, D P, Knight, M C, Martin, R P, Schipani, E, Divieti, P, Bringhurst, F R, Milner, L A, Kronenberg, H M, Scadden, D T, **425**, 841

haemoglobin, Biophysics: Solution to haemoglobin's structural paradox, *News and views*, Surridge, C, **421**, 493

hafnium, Geochemistry: Lost terrains of early Earth, *News and views*, Jacobsen, S B, **421**, 901

Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites, *Letter to Nature*, Bizzarro, M, Baker, J A, Haack, H, Ulfbeck, D, Rosing, M, **421**, 931

Haigneré, Claudie, French minister breaks diplomatic ice with visit to US, *News*, Brumfiel, G, **422**, 551

Haikouichthys, Head and backbone of the Early Cambrian vertebrate *Haikouichthys*, *Letter to Nature*, Shu, D-G, Conway Morris, S, Han, J, Zhang, Z-F, Yasui, K, Janvier, P, Chen, L, Zhang, X-L, Liu, J-N, Li, Y, Liu, H-Q, **421**, 526

hair follicles, Developmental biology: A hairy situation, *News and views*, Barrandon, Y, **422**, 272

Hales, Thomas, Does the proof stack up?, *News feature*, Szpiro, G, **424**, 12

Computer's ability to verify proof is an illusion, *Correspondence*, Partridge, D, **425**, 121

Hall effect, Signature of optimal doping in Hall-effect measurements on a high-temperature superconductor, *Letter to Nature*, Balakirev, F F, Betts, J B, Migliori, A, Ono, S, Ando, Y, Boebinger, G S, **424**, 912

Hall, Phil, Maths institute planned to meet multiplying demand, *News*, Giles, J, **426**, 594

haloacid dehalogenase, The transcription factor Eyes absent is a protein tyrosine phosphatase, *Letter to Nature*, Tootle, T L, Silver, S J, Davies, E L, Newman, V, Latek, R R, Mills, I A, Selengut, J D, Parlikar, B E W, Rebay, I, **426**, 299

Han, Bin, Ousted university vet sues over dismissal, *News in brief*, **423**, 214

hands, Human evolution: Being manipulative, *News and views*, Whitfield, J, **422**, 577

haplotypes, Variation for all, *Opinion*, **426**, 739

Feature: The International HapMap Project, *Feature*, The International HapMap Consortium, **426**, 789

hardness, Biomaterials: Zinc hardens worm jaws, *News and views*, Ball, P, **424**, 630

harmonics, Acoustics: New bells ring sweeter, *News and views*, Ball, P, **424**, 265

Psychoacoustics: Hearing ghosts, *News and views*, Ball, P, **425**, 914

harvestmen, Palaeontology: Preserved organs of Devonian harvestmen, *Brief communication*, Dunlop, J A, Anderson, L I, Kerp, H, Hass, H, **425**, 916

Hawaii, Court rule against NASA over Hawaiian telescope, *News in brief*, **424**, 480

Hawaii, volcanoes, A window on the inner Earth, *News feature*, Dalton, R, **421**, 10

Hayashizaki, Yoshihide, Japanese lab turns the page on cDNA delivery, *News in brief*, **422**, 794

HD209458b, Astronomy: Atmosphere out of that world, *News and views*, Charbonneau, D, **422**, 124

An extended upper atmosphere around the extrasolar planet HD209458b, *Letter to Nature*, Vidal-Madjar, A, Lecavelier des Etangs, A, Desert, J-M, Ballester, G E, Ferlet, R, Hébrard, G, Mayor, M, **422**, 143

HE0107-5240, Astronomy: Telling the tale of the first stars, *News and views*, Beers, T C, **422**, 825

Astrophysics: How did the metals in a giant star originate, *Brief communication*, Bonifacio, P, Limongi, M, Chieffi, A, **422**, 834

Low-mass relics of early star formation, *Letter to Nature*, Schneider, R, Ferrara, A, Salvaterra, R, Omukai, K, Bromm, V, **422**, 869

First-generation black-hole-forming supernovae and the metal abundance pattern of a very iron-poor star, *Letter to Nature*, Umeda, H, Nomoto, K, **422**, 871

Health InterNetwork Access to Research Initiative, New access for agriculture, *Opinion*, **425**, 749

hearing, A TRPV family ion channel required for hearing in *Drosophila*, *Letter to Nature*, Kim, J, Chung, Y D, Park, D-y, Choi, S, Shin, D W, Soh, H, Lee, H W, Son, W, Yim, J, Park, C-S, Kernan, M J, Kim, C, **424**, 81

Hearing: Spin the chicken, *News and views*, Pilcher, H R, **424**, 385

heart, Physiology: Machinations of the heart's strain gauge, *News and views*, Surridge, C, **421**, 228

Human genetics: Lost anchors cost lives, *News and views*, Nattel, S, **421**, 587

Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death, *Letter to Nature*, Mohler, P J, Schott, J-J, Gramolini, A O, Dilly, K W, Guatimosim, S, duBell, W H, Song, L-S, Haurogne, K, Kyndt, F, Ali, M E, Rogers, T B, Lederer, W J, Escande, D, Le Marec, H, Bennett, V, **421**, 634

The beat goes on, *News feature*, Zandonella, C, **421**, 884

heart disease, Heart-attack deaths raise fears over smallpox jabs, *News in brief*, **422**, 462

heat, Thermal physics: Heat in one dimension, *News and views*, Livi, R, Lepri, S, **421**, 327

heat shock proteins, Molecular chaperones: Plugging the transport gap, *News and views*, Ellis, R J, **421**, 801

Cancer: The rules of attraction, *News and views*, Neckers, L, Lee, Y-S, **425**, 357

A high-affinity conformation of Hsp90 confers tumour selectivity on Hsp90 inhibitors, *Letter to Nature*, Kamal, A, Thao, L, Sensintaffar, J, Zhang, L, Boehm, M F, Fritz, L C, Burrows, F J, **425**, 407

- **heavy electrons**, The break-up of heavy electrons at a quantum critical point, *Letter to Nature*, Custers, J, Gegenwart, P, Wilhelm, H, Neumaier, K, Tokiwa, Y, Tovarelli, O, Geibel, C, Steglich, F, Pepin, C, Coleman, P, **424**, 524
- **heavy metals**, Biogeochemistry: Heavy metal out of air, *News and views*, Lincoln, T, **423**, 395
  - Plant physiology, *News and views*, Surridge, C, **424**, 385
- **heavy oil**, Biological activity in the deep subsurface and the origin of heavy oil, *Insight review article*, Head, I M, Jones, D M, Larter, S R, **426**, 344
- **Hector Mine earthquake**, Damage to the shallow Landers fault from the nearby Hector Mine earthquake, *Letter to Nature*, Vidale, J E, Li, Y-G, **421**, 524
- **hedgehog protein**, Cancer: A twist in a hedgehog's tale, *News and views*, Scott, M P, **425**, 780
  - Widespread requirement for Hedgehog ligand stimulation in growth of digestive tract tumours, *Letter to Nature*, Berman, D M, Karhadkar, S S, Maitra, A, Montes de Oca, R, Gerstenblith, M R, Briggs, K, Parker, A R, Shimada, Y, Eshleman, J R, Watkins, D N, Beachy, P A, **425**, 846
  - Hedgehog is an early and late mediator of pancreatic cancer tumorigenesis, *Letter to Nature*, Thayer, S P, Pasca di Magliano, M, Heiser, P W, Nielsen, C M, Roberts, D J, Lauwers, G Y, Qi, Y P, Gysin, S, Fernandez-del Castillo, C, Yajnik, V, Antoniu, B, McMahon, M, Warshaw, A L, Hebrok, M, **425**, 851
- **Hedgehog signalling**, Hedgehog signalling within airway epithelial progenitors and in small-cell lung cancer, *Letter to Nature*, Watkins, D N, Berman, D M, Burkholder, S G, Wang, B, Beachy, P A, Baylin, S B, **422**, 313
- **Heisenberg, Werner**, Quantum physics: Uncertain future, *News and views*, Blencowe, M, **424**, 262
- **helicase**, Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen, *Article*, Li, D, Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Jochimiak, A, Szakonyi, G, Chen, X S, **423**, 512
  - Corrigendum: Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen, *Letter to Nature*, Li, D, Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Joachimiak, A, Szakonyi, G, Chen, X S, **425**, 102
- ***Helicobacter pylori***, Gut reaction, *News feature*, Whitfield, J, **423**, 583
  - Discovery changes view of bacteria, *News*, Knight, J, **423**, 909
- ***Heliothis virescens***, Structural adaptability in the ligand-binding pocket of the ecdysone hormone receptor, *Letter to Nature*, Billas, I M L, Iwema, T, Garnier, J-M, Mitschler, A, Rochel, N, Moras, D, **426**, 91
- **helium**, Cosmology: The helium legacy of dead stars, *News and views*, Ball, P, **422**, 275
  - High ^{3}He/^{4}He ratios in picritic basalts from Baffin Island and the role of a mixed reservoir in mantle plumes, *Letter to Nature*, Stuart, F M, Lass-Evans, S, Fitton, J G, Ellam, R M, **424**, 57
  - Paired-up helium atoms make it big, *News*, Brumfiel, G, **424**, 865
  - Take a deep breath, *News feature*, Klarreich, E, **424**, 873
  - Astrophysics: Lost lithium, *News and views*, Baker, J, **425**, 472
- **helium, superfluid**, Turbulence: Suddenly it's chaos, *News and views*, Pickett, G, **424**, 1002
  - An intrinsic velocity-independent criterion for superfluid turbulence, *Letter to Nature*, Finne, A P, Araki, T, Blaauwgeers, R, Eltsov, V B, Kopnin, N B, Krusius, M, Skrbek, L, Tsubota, M, Volovik, G E, **424**, 1022
- **helminths**, Evolution of complex life cycles in helminth parasites, *Article*, Parker, G A, Chubb, J C, Ball, M A, Roberts, G N, **425**, 480
- **Henize 3-1475**, Astronomy: Sprinkler system, *News and views*, Wright, A, **423**, 492
- **heparan sulphate**, Chondroitin proteoglycans are involved in cell division of *Caenorhabditis elegans*, *Letter to Nature*, Mizuguchi, S, Uyama, T, Kitagawa, H, Nomura, K H, Dejima, K, Gengyo, Ando, K, Mitani, S, Sugahara, K, Nomura, K, **423**, 443
- **hepatitis**, Immunology: Hepatitis A virus link to atopic disease, *Brief communication*, McIntire, J J, Umetsu, S E, Macaubus, C, Hoyte, E G, Cinnioglu, C, Cavalli-Sforza, L L, Barsh, G S, Hallmayer, J F, Underhill, P A, Risch, N J, Freeman, G J, DeKruyff, R H, Umetsu, D T, **425**, 576
  - Virology: Fresh assault on hepatitis C, *News and views*, Rice, C M, **426**, 129
  - An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus, *Letter to Nature*, Lamarre, D, Anderson, P C, Balley, M, Beaulieu, P, Boiger, G, Bonneau, P, Bos, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, LaPlante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weldon, S M, Yong, C-L, Llinas-Brunet, M, **426**, 186
  - An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus, *Letter to Nature*, Lamarre, D, Anderson, P C, Bailey, M, Beaulieu, P, Boiger, G, Bonneau, P, Bös, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, Laplante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weidon, S M, Yong, C-L, Llinas-Brunet, M, **426**, 314
- **hepatocytes**, Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes, *Letter to Nature*, Alvarez-Dolado, M, Pardal, R, Garcia-Verdugo, J M, Fike, J R, Lee, H O, Pfeffer, K, Lois, C, Morrison, S J, Alvarez-Buylla, A, **425**, 968
- **HER2**, Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab, *Letter to Nature*, Cho, H-S, Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J, **421**, 756
- **herbicides**, Flight records reveal full extent of Agent Orange contamination, *News*, Butler, D, **422**, 649
  - The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
  - UK experts map out route to licensing transgenic crops, *News*, Giles, J, **424**, 358
  - Scientists attack industrial influence, *News*, Knight, J, **426**, 741
- **herbivores**, Ecology: Under attack, *News and views*, Whitfield, J, **424**, 1011
- **Herceptin**, Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab, *Letter to Nature*, Cho, H-S, Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J, **421**, 756
- **heredity**, Animal behaviour: Heredity and the bolder bird, *News and views*, Whitfield, J, **421**, 804
- **heregulin**, Just mix and patch, *News and views*, Mostov, K, Zegers, M, **422**, 267
  - Segregation of receptor and ligand regulates activation of epithelial growth factor receptor, *Letter to Nature*, Vermeer, P D, Einwalter, L A, Moninger, T O, Rokhlina, T, Kern, J A, Zabner, J, Welsh, M J, **422**, 322
- **herpetology**, Mock turtles, *News feature*, Dalton, R, **423**, 219
- **Herskowitz, Ira**, Obituary: Ira Herskowitz (1946–2003), *News and views*, Johnson, A, Ptashne, M, **424**, 384
- **Herto hominids**, Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Faupl, P, Richter, W, Urbanek, C, **426**, 621
  - Reply: Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Hart, W K, WoldeGabriel, G, Katoh, S, Renne, P R, Suwa, G, Asfaw, B, White, T D, **426**, 622
- **Hes1**, Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Article*, Kawasaki, H, Taira, K, **423**, 838
  - Retraction: Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Letter to Nature*, Kawasaki, H, Taira, K, **426**, 100
- **heterochromatin**, Molecular biology: Dynamics of condensed DNA, *News and views*, Heinrichs, A, **421**, 597
  - DNA triplet repeats mediate heterochromatin-protein-1-sensitive variegated gene silencing, *Letter to Nature*, Saveliev, A, Everett, C, Sharpe, T, Webster, Z, Festenstein, R, **422**, 909
- **heterochromatin protein 1**, DNA triplet repeats mediate heterochromatin-protein-1-sensitive variegated gene silencing, *Letter to Nature*, Saveliev, A, Everett, C, Sharpe, T, Webster, Z, Festenstein, R, **422**, 909
- **heteroepitaxy**, Materials science: The road to diamond wafers, *News and views*, Lee, S T, Lifshitz, Y, **424**, 500
- **heterojunctions**, Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films, *Letter to Nature*, Peumans, P, Uchida, S, Forrest, S R, **425**, 158
- **heterozygosity**, Cell biology: It's the old story of yeast, *News and views*, Marte, B, **425**, 472
  - Females increase offspring heterozygosity and fitness through extra-pair matings, *Letter to Nature*, Foerster, K, Delhey, K, Johnsen, A, Lifjeld, J T, Kempenaers, B, **425**, 714
- **Hibben, Frank**, University buildings named on shaky ground, *News*, Dalton, R, **426**, 374
- **hibernation**, Neurobiology: Untangling tau, *News and views*, Craven, R, **424**, 898
- **HIF protein**, Cancer: Location, location, location, *News and views*, Thomas, C, **425**, 34
- **High Energy Transient Explorer II (HETE II)**, Astronomy: Glowing embers, *News and views*, Piran, T, **422**, 268
  - Early optical emission from the γ-ray burst of 4 October 2002, *Letter to Nature*, Fox, D W, Yost, S, Kulkarni, S R, Torii, K, Kato, T, Yamaoka, H, Sako, M, Harrison, F A, Sari, R, Price, P A, Berger, E, Soderberg, A M, Djorgovski, S G, Barth, A J, Pravdo, S H, Frail, D A, Gal-Yam, A, Lipkin, Y, Mauch, T, Harrison, C, Buttery, H, **422**, 284
- **high pressure studies**, Modulated structure of solid iodine during its molecular dissociation under high pressure, *Letter to Nature*, Kenichi, T, Kyoko, S, Hiroshi, F, Mitsuko, O, **423**, 971
- **high-density lipoprotein**, Ectopic β-chain of ATP synthase is an apolipoprotein A-I receptor in hepatic HDL endocytosis, *Letter to Nature*, Martinez, L O, Jacquet, S, Esteve, J-P, Rolland, C, Cabezon, E, Champagne, E, Pineau, T, Georgeaud, V, Walker, J E, Terce, F, Collet, X, Perret, B, Barbaras, R, **421**, 75
- **high-energy physics**, Japan matches price of German collider, *News in brief*, **421**, 778
  - High-energy physics: Into the fifth dimension, *News and views*, Maldacena, J, **423**, 695
- **high-harmonic generation**, Quasi-phase-matched generation of coherent extreme-ultraviolet light, *Letter to Nature*, Paul, A, Bartels, R A, Tobey, R, Green, H, Weiman, S, Christov, I P, Murnane, M M, Kapteyn, H C, Backus, S, **421**, 51
- **high-resolution transmission electron microscopy**, Atomic imaging: Like peas in a 'nanopod', *News and views*, Gerstner, E, **421**, 804
- **high-temperature superconduction**, High-temperature superconductor bulk magnets that can trap magnetic fields of over 17 tesla at 29K, *Letter to Nature*, Tomita, M, Murakami, M, **421**, 517
- **Himalayas**, Decoupling of erosion and precipitation in the Himalayas, *Letter to Nature*, Burbank, D W, Blythe, A E, Putkonen, J, Pratt-Sitaula, B, Gabet, E, Oskin, M, Barros, A, Ojha, T P, **426**, 652
- ***hippo* gene**, Cell biology: The hippo hypothesis, *News and views*, Rothenberg, M E, Jan, Y-N, **425**, 469
- **hippocampus**, Neurobiology: Interneurons take charge, *News and views*, Moser, E I, **421**, 797
  - Brain-state- and cell-type-specific firing of hippocampal interneurons *in vivo*, *Letter to Nature*, Klausberger, T, Magill, P J, Márton, L F, Roberts, J D B, Cobden, P M, Buzsáki, G, Somogyi, P, **421**, 844
  - Neuroscience: Going to town, *News and views*, Pilcher, H R, **422**, 132
  - Organization of cell assemblies in the hippocampus, *Letter to Nature*, Harris, K D, Csicsvari, J, Hirase, H, Dragol, G, Buzsáki, G, **424**, 552
  - Cellular networks underlying human spatial navigation, *Letter to Nature*, Ekstrom, A D, Kahana, M J, Caplan, J B, Fields, T A, Isham, E A, Newman, E L, Fried, I, **425**, 184
  - Independent rate and temporal coding in hippocampal pyramidal cells, *Letter to Nature*, Huxter, J, Burgess, N, O'Keefe, J, **425**, 828
- **Hiroshima**, A dose of the bomb, *News and views*, Little, M P, **424**, 495
  - Measuring fast neutrons in Hiroshima at distances relevant to atomic-bomb survivors, *Letter to Nature*, Straume, T, Rugel, G, Marchetti, A A, Ruhm, W, Korschinek, G, McAninch, J E, Carroll, K, Egbert, S, Faestermann, T, Knie, K, Martinelli, R, Wallner, A, Wallner, C, **424**, 539
- **histones**, Cancer: Protective packaging for DNA, *News and views*, Downs, J A, Jackson, S P, **424**, 732
  - Molecular biology: SUMO wrestles with genes, *News and views*, Pilcher, H R, **426**, 402
- **histone acetylation**, Rhythmic histone acetylation underlies transcription in the mammalian circadian clock, *Letter to Nature*, Etchegaray, J-P, Lee, C, Wade, P A, Reppert, S M, **421**, 177
- **histone deacetylase**, Sequence-specific recruitment of transcriptional co-repressor Cabin1 by myocyte enhancer factor-2, *Letter to Nature*, Han, A, Pan, F, Stroud, J C, Youn, H-D, Liu, J O, Chen, L, **422**, 730
- **histone methyltransferase**, Structure and catalytic mechanism of the human histone methyltransferase SET7/9, *Letter to Nature*, Xiao, B, Jing, C, Wilson, J R, Walker, P A, Vasisht, N, Kelly, G, Howell, S, Taylor, I A, Blackburn, G M, Gamblin, S J, **421**, 652
- **histone modification**, Feature: Controlling the double helix, *Feature*, Felsenfeld, G, Groudine, M, **421**, 448
  - Coordinated histone modifications mediated by a CtBP co-repressor complex, *Letter to Nature*, Shi, Y, Sawada, J-I, Sui, G, Affar, E B, Whetstine, J R, Lan, F, Ogawa, H, Luke, M P-S, Nakatani, Y, Shi, Y, **422**, 735
- **histone phosphorylation**, Histone H3 phosphorylation by IKK-a is critical for cytokine-induced gene expression, *Letter to Nature*, Yamamoto, Y, Verma, U N, Prajapati, S, Kwak, Y-T, Gaynor, R B, **423**, 655
  - A nucleosomal function for IκB kinase-α in NF-κB-dependent gene expression, *Letter to Nature*, Anest, V, Hanson, J L, Cogswell, P C, Steinbrecher, K A, Strahl, B D, Baldwin, A S, **423**, 659
- **histone proteins**, Binary switches and modification cassettes in histone biology and beyond, *Hypothesis*, Fischle, W, Wang, Y, Allis, C D, **425**, 475
- **historical records**, How e-mail raises the spectre of a digital Dark Age, *Correspondence*, Friedberg, E C, Hagler, H K, Land, K J, **423**, 801
- **history**, University faces up to wartime use of slaves, *News*, Abbott, A, **422**, 792
  - The Deadly Truth: A History of Disease in America, Grob, G, *Book review by* Bynum, W F, **423**, 19
  - Massive cathedral testifies to ancient emperor's might, *News in brief*, **423**, 676
- **history of medicine**, Exhibition: The medicine man's museum, *Book review*, Abbott, A, **423**, 805
- **history of science**, 1903 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **421**, 15
  - The eternal molecule, *Feature*, Dennis, C, Campbell, P, **421**, 396
  - Feature: Quiet debut for the double helix, *Feature*, Olby, R, **421**, 402
  - Feature: The *Mona Lisa* of modern science, *Feature*, Kemp, M, **421**, 416
  - Visual zoology, *Science in Culture*, Abbott, A, **421**, 580
  - Flying into history, *Correspondence*, Schmidhuber, J, **421**, 689
  - The Art of Chemistry: Myths, Medicines and Materials, Greenberg, A, *Book review by* Emsley, J, **421**, 790
  - Fabulous Science: Fact and Fiction in the History of Scientific Discovery, Waller, J, *Book review by* Galloway, J, **422**, 19
  - Hydrogen: The Essential Element, Rigden, J S, *Book review by* Kleppner, D, **422**, 119
  - Galileo's Finger, Atkins, P, *Book review by* Wilczek, F, **422**, 377
  - Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803
  - DNA: The secret of life, Watson, J D, Berry, A, Knopf, A A, *Book review by* Singer, M, **422**, 809
  - The Hedgehog, the Fox, and the Magister's Pox: Mending the Gap Between Science and the Humanities, Gould, S J, *Book review by* Hull, D, **422**, 810
  - Court studies biology papers in row over title, *News in brief*, **423**, 578
  - Philology: The pages of history, *Book review*, Abbott, A, **423**, 588
  - The Oxford Companion to the History of Modern Science, Heilbron, J L, *Book review by* Huxtable, R J, **424**, 17
  - History and science united to vindicate Perutz, *Correspondence*, Paterlini, M, **424**, 127
  - A Short History of Nearly Everything, Bryson, B, *Book review by* Gratzer, W, **424**, 725
  - Leonardo know the fluid boundaries of science, *Correspondence*, Grillo, S E, **426**, 15

Hitler, Adolf, Hitler's Scientists: Science, War and the Devil's Pact, *Book review*, Cornwell, J, Macrakis, K, **425**, 766
HIV, All the President's yes-men?, *Editorial*, **421**, 459
Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **422**, 307
Sexual transmission of HIV in Africa, *Brief communication*, Walker, P R, Worobey, M, Rambaut, A, Holmes, E C, Pybus, O G, **422**, 679
Erratum: Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **423**, 197
Addendum: HIV-1 superinfection despite broad CD8$^+$ T-cell responses containing replication of the primary virus, *Letter to Nature*, Altfeld, M, Allen, T M, Yu, X G, Johnston, M N, Agrawal, D, Korber, B T, Montefiori, D C, O'Connor, D H, Davis, B T, Lee, P K, Maier, E L, Harlow, J, Goulder, P J R, Brander, C, Rosenberg, E S, Walker, B D, **423**, 461
HIV: Lucky mutation, *News and views*, Pilcher, H R, **423**, 598
Clinical data marshalled to treat HIV, *News*, Clarke, T, **423**, 791
Good to CU, *News and views*, Gu, Y, Sundquist, W I, **424**, 21
The cytidine deaminase CEM15 induces hypermutation in newly synthesized HIV-1 DNA, *Letter to Nature*, Zhang, H, Yang, B, Pomerantz, R J, Zhang, C, Arunachalam, S C, Gao, L, **424**, 94
Broad antiretroviral defence by human APOBEC3G through lethal editing of nascent reverse transcripts, *Letter to Nature*, Mangeat, B, Turelli, P, Caron, G, Friedli, M, Perrin, L, Trono, D, **424**, 99
HIV: Cross-talk and viral reservoirs, *News and views*, Pomerantz, R J, **424**, 136
HIV-1 Nef intersects the macrophage CD40L signalling pathway to promote resting-cell infection, *Letter to Nature*, Swingler, S, Brichacek, B, Jacque, J-M, Ulich, C, Zhou, J, Stevenson, M, **424**, 213
HIV drug resistance triggers strategic switch, *News*, Check, E, **424**, 361
Accrued HIV evidence turns treatment dogma on its head, *News*, Check, E, **424**, 866
Vaccine claim lifts company's stock but angers researchers, *News*, Check, E, **425**, 332
Virology: Smallpox selective potential, *News and views*, Clarke, T, **426**, 618
The role of evolutionary in the emergence of infectious diseases, *Letter to Nature*, Antia, R, Regoes, R R, Koella, J C, Bergstrom, C T, **426**, 658
The gene product Murr1 restricts HIV-1 replication in resting CD4$^+$ lymphocytes, *Letter to Nature*, Ganesh, L, Burstein, E, Guha-Niyogi, A, Louder, M K, Mascola, J R, Klomp, L W J, Wijmenga, C, Duckett, C S, Nabel, G J, **426**, 853
HIV, treatment, On the trail of better treatment, *News*, Check, E, **422**, 245
HIV drug triggers strategic switch, *News*, Check, E, **424**, 361
HIV, vaccine, Mixed results win HIV vaccine a guarded response, *News*, Hoag, H, **421**, 877
Trial suggests vaccines could aid HIV therapy, *News*, Check, E, **422**, 650
HIV Resistance Response Database Initiative, Clinical data marshalled to treat HIV, *News*, Clarke, T, **423**, 791
hive beetle, Hive beetle causes a buzz in Europe, *News*, Graf, P, **423**, 793
Hoeveler, William, Judge's sacking rocks Everglades clean-up, *News*, Mason, B, **425**, 551
Holocene epoch, Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean, *Letter to Nature*, Gupta, A K, Anderson, D M, Overpeck, J T, **421**, 354
Palaeo-oceanography: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **422**, 277
correction: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **423**, 400
After the Ice: A Global Human History 20,000–5000 BC, Mithen, S, *Book review by* Bettinger, R, **425**, 453
holographic data storage, The light fantastic, *News feature*, Haw, M, **422**, 556
holography, Art: Seeing the light, *Book review*, Cyranoski, D, **424**, 726
home-range size, Captivity effects on wide-ranging carnivores, *Brief communication*, Clubb, R, Mason, G, **425**, 473
homeobox genes, A microRNA controlling left/right neuronal asymmetry in *Caenorhabditis elegans*, *Letter to Nature*, Johnston, R J, Hobert, O, **426**, 845
Homestake Mine, Homestake strikes gold in underground review, *News in brief*, **423**, 578
Pumping row erodes hopes for underground lab, *News*, Brumfiel, G, **423**, 674
Gold-mine conversion eases closer, *News*, Brumfiel, G, **424**, 713
hominids, Court rules in favour of research on Kennewick Man, *News in brief*, **421**, 202
A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61
Hunts for neutrinos and hominids pay off, *News in brief*, **422**, 366
Genetics to unlock secrets of our African past, *News*, Cherry, M, **422**, 460
Television review: Walking with Cavemen, Dale, R, *Book review by* Gamble, C, **422**, 473
Human evolution: Being manipulative, *News and views*, Whitfield, J, **422**, 577
Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849
Human evolution: Out of Ethiopia, *News and views*, Stringer, C, **423**, 692
Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, White, T D, Asfaw, B, DeGusta, D, Gilbert, H, Richards, G D, Suwa, G, Howell, F C, **423**, 742
Stratigraphic, chronological and behavioural contexts of Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, Clark, J D, Beyene, Y, WoldeGabriel, G, Hart, W K, Renne, P R, Gilbert, H, Defleur, A, Suwa, G, Katoh, S, Ludwig, K R, Boisserie, J-R, Asfaw, B, White, T D, **423**, 747
Lowly Origin: Where, When, and Why Our Ancestors First Stood Up, Kingdon, J, *Book review by* Rook, L, **423**, 804
Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Faupl, P, Richter, W, Urbanek, C, **426**, 621
Reply: Geochronology: Dating of the Herto hominin fossils, *Brief communication*, Hart, W K, WoldeGabriel, G, Katoh, S, Renne, P R, Suwa, G, Asfaw, B, White, T D, **426**, 622
Homo ergaster, Television review: Walking with Cavemen, Dale, R, *Book review by* Gamble, C, **422**, 473
Homo habilis, Television review: Walking with Cavemen, Dale, R, *Book review by* Gamble, C, **422**, 473
Homo sapiens, Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849
Human evolution: Out of Ethiopia, *News and views*, Stringer, C, **423**, 692
Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, White, T D, Asfaw, B, DeGusta, D, Gilbert, H, Richards, G D, Suwa, G, Howell, F C, **423**, 742
Stratigraphic, chronological and behavioural contexts of Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, Clark, J D, Beyene, Y, WoldeGabriel, G, Hart, W K, Renne, P R, Gilbert, H, Defleur, A, Suwa, G, Katoh, S, Ludwig, K R, Boisserie, J-R, Asfaw, B, White, T D, **423**, 747
homosexuality, Eight Preposterous Propositions: From the Genetics of Homosexuality to the Benefits of Global Warming, Ehrlich, R, *Book review by* Gratzer, W, **426**, 766
Hong Kong, as bird flu sparks alarm in Hong Kong, *News in brief*, **421**, 882
Hong Kong, research funding, Budget cuts force Hong Kong to reduce salaries, *News*, Dennis, C, **426**, 485
Hooke, Robert, London's Leonardo: The Life and Work of Robert Hooke, Bennett, J, Cooper, M, Hunter, M, Jardine, L, *Book review by* Oldroyd, D R, **423**, 384
Portrait: Updating Hooke, *Book review*, Kemp, M, **424**, 255
Hopfield, John, Biology can be helpful to open-minded physicists, *Correspondence*, Li, G, **421**, 111
hormesis, Toxicology rethinks its central belief, *Commentary*, Calabrese, E J, Baldwin, L A, **421**, 691
hormones, The key to signalling, *Concepts*, Kushiro, T, Nambara, E, McCourt, P, **422**, 122
hornets, Insect signalling: Components of giant hornet alarm pheromone, *Brief communication*, Ono, M, Terabe, H, Hori, H, Sasaki, M, **424**, 637
horns, Behavioural ecology: Horns and lifestyle, *News and views*, Whitfield, J, **425**, 253
horses, A catapult action for rapid limb protraction, *Brief communication*, Wilson, A M, Watson, J C, Lichtwark, G A, **421**, 35
A cloned horse born to its dam twin, *Brief communication*, Galli, C, Lagutina, I, Crotti, G, Colleoni, S, Turini, P, Ponderato, N, Duchi, R, Lazzari, G, **424**, 635
Corrigendum: A cloned horse born to its dam twin, *Brief communication*, Galli, C, Lagutina, I, Crotti, G, Colleoni, S, Turini, P, Ponderato, N, Duchi, R, Lazzari, G, **425**, 680
Rapid body size decline in Alaskan Pleistocene horses before extinction, *Letter to Nature*, Guthrie, R D, **426**, 169
host defence, The immune response of *Drosophila*, *Review article*, Hoffmann, J A, **426**, 33
host–parasite interaction, Erratum: The role of parasites in sympatric and allopatric host diversification, *Letter to Nature*, Buckling, A, Rainey, P B, **421**, 294
Escalation of a coevolutionary arms race through host rejection of brood parasitic young, *Letter to Nature*, Langmore, N E, Hunt, S, Kilner, R M, **422**, 157
Parasitology: In the bag, *News and views*, Whitfield, J, **423**, 702
Speciation by host switch in brood parasitic indigobirds, *Letter to Nature*, Sorenson, M D, Sefc, K M, Payne, R B, **424**, 928
Evolution of complex life cycles in helminth parasites, *Article*, Parker, G A, Chubb, J C, Ball, M A, Roberts, G N, **425**, 480
household size, Biodiversity: The threat of small households, *News and views*, Keilman, N, **421**, 489
Effects of household dynamics on resource consumption and biodiversity, *Letter to Nature*, Liu, J, Daily, G C, Ehrlich, P R, Luck, G W, **421**, 530
***Hox* genes**, A role for Wnt signalling in self-renewal of haematopoietic stem cells, *Article*, Reya, T, Duncan, A W, Ailles, L, Domen, J, Scherer, D C, Willert, K, Hintz, L, Nusse, R, Weissman, I L, **423**, 409
Cephalopod *Hox* genes and the origin of morphological novelties, *Letter to Nature*, Lee, P N, Callaerts, P, de Couet, H G, Martindale, M Q, **424**, 1061
cdx4 mutants fail to specify blood progenitors and can be rescued by multiple *hox* genes, *Letter to Nature*, Davidson, A J, Ernst, P, Wang, Y, Dekens, M P S, Kingsley, P D, Palis, J, Korsmeyer, S J, Daley, G Q, Zon, L I, **425**, 300
Motor neuron columnar fate imposed by sequential phases of Hox-c activity, *Article*, Dasen, J S, Liu, J-P, Jessell, T M, **425**, 926
Hox proteins, Neurobiology: Stem cells stop dead, *News and views*, Pearson, H, **421**, 597
Motor neuron columnar fate imposed by sequential phases of Hox-c activity, *Article*, Dasen, J S, Liu, J-P, Jessell, T M, **425**, 926
Hsp proteins, *See* heat shock proteins
Hsp90 inhibitors, A high-affinity conformation of Hsp90 confers tumour selectivity on Hsp90 inhibitors, *Letter to Nature*, Kamal, A, Thao, L, Sensintaffar, J, Zhang, L, Boehm, M F, Fritz, L C, Burrows, F J, **425**, 407
HTML, Mathematics get fresh formula for web searches, *News in brief*, **426**, 596
Hubble Space Telescope, Astronomers urge NASA not to cut corners on Hubble successor, *News*, Reichhardt, T, **422**, 3
Space: telescopes reveal the way forward, *Correspondence*, Angel, R, **422**, 373
Hubble versus the future, *Opinion*, **424**, 599
NASA under pressure to extend Hubble's life, *News*, Reichhardt, T, **424**, 603
NASA panel sees starry future for Hubble telescope, *News in brief*, **424**, 868
Astronomy: The mystery companion, *News and views*, Soker, N, **426**, 236
Human Brain Proteome Project, Brain protein project enlists mice in 'dry run', *News*, Abbott, A, **425**, 110
human culture, Hydrocarbons and the evolution of human culture, *Insight commentary*, Hall, C, Tharakan, P, Hallock, J, Cleveland, C, Jefferson, M, **426**, 318
human embryo research, Human cloning claim sparks fear of Senate backlash, *News*, Macilwain, C, **421**, 3
Biotech critic tries to sew up research on chimaeras, *News*, Check, E, **421**, 4
Biologists seek blueprint for international stem-cell effort, *News*, Check, E, **421**, 102
German researchers set to receive Israeli stem-cell shipment, *News*, Watzman, H, **421**, 199
Developmental biology: Decoding stem cells' powers, *News and views*, Pearson, H, **421**, 228
NIH aims to characterize embryonic stem-cell lines, *News in brief*, **421**, 682
Scientists blast European vote to limit stem-cell work, *News in brief*, **422**, 654
Disease insights from stem cells, *Opinion*, **422**, 787
Stem cells: Fusion brings down barriers, *News and views*, Medvinsky, A, Smith, A, **422**, 823
Low embryo count fuels US stem-cell debate, *News*, Powell, K, **423**, 213
Researchers divided over ethics of a ban on cloning, *News*, Abbott, A, **423**, 373
Approval for stem cells pre-empts parliament, *News in brief*, **423**, 374
Embryos aren't essential to stem-cell research, *Correspondence*, Sherley, J L, **423**, 381
US federal funding ban puts babies at risk, *Correspondence*, Carson, S, Brzyski, R, **423**, 381
Role of ERas in promoting tumour-like properties in mouse embryonic stem cells, *Letter to Nature*, Takahashi, K, Mitsui, K, Yamanaka, S, **423**, 541
Japanese team makes stem cells, *News*, Cyranoski, D, **423**, 577
International website to collate data on embryonic stem cells, *News in brief*, **423**, 578
Medical association backs human cloning, *News in brief*, **423**, 911
Europe split over move to loosen stem-cell regulations, *News*, Abbott, A, **424**, 117
Synthetic sex cells, *News feature*, Dennis, C, **424**, 364
Czech stem-cell work heightens calls for EU ruling, *News*, Abbott, A, **424**, 602
Chinese fusion method promises fresh route to human stem cells, *News*, Dennis, C, **424**, 711
Fetal trials need public funds, *Opinion*, **424**, 981
Parkinson's transplant therapy faces setback, *News*, Check, E, **424**, 987
California rejects party line on stem-cell work, *News in brief*, **425**, 442
United Nations fails to reach agreement on human cloning, *News in brief*, **426**, 112
Take a cell, any cell, *News feature*, Dennis, C, **426**, 490
Europe dithers over regulations for stem-cell research, *News*, Abbott, A, **426**, 595
Italy takes hard line on embryo research, *News in brief*, **426**, 746
human genome, Feature: The mosaic that is our genome, *Feature*, Paabo, S, **421**, 409
Human genome finished in time for DNA's golden jubilee, *News in brief*, **422**, 654
Genome biology: Tales of the Y chromosome, *News and views*, Willard, H F, **423**, 810
The male-specific region of the human Y chromosome is a mosaic of discrete sequence classes, *Article*, Skaletsky, H, Kuroda-Kawaguchi, T, Minx, P J, Cordum, H S, Hillier, L, Brown, L G, Repping, S, Pyntikova, T, Ali, J, Bieri, T, Chinwalla, A, Delehaunty, A, Delehaunty, K, Du, H, Fewell, G, Fulton, L, Fulton, R, Graves, T, Hou, S-F, Latrielle, P, Leonard, S, Mardis, E, Maupin, R, McPherson, J, Miner, T, Nash, W, Nguyen, C, Ozersky, P, Pepin, K, Rock, S, Rohlfing, T, Scott, K, Schultz, B, Strong, C, Tin-Wollam, A, Yang, S-P, Waterston, R H, Wilson, R K, Rozen, S, Page, D C, **423**, 825
Coral reveals ancient origins of human genes, *News*, Dennis, C, **426**, 744

Feature: The International HapMap Project, *Feature*, The International HapMap Consortium, **426**, 789

Human Genome Project, Feature: The digital code of DNA, *Feature*, Hood, L, Galas, D, **421**, 444

Human genome finished in time for DNA's golden jubilee, *News in brief*, **422**, 654

Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803

A vision for the future of genomics research, *Feature*, Collins, F S, Green, E D, Guttmacher, A E, Guyer, M S, **422**, 835

human immunodeficiency virus *see* HIV

human intelligence, Natural-born Cyborgs: Minds, Technologies, and the future of Human Intelligence, Clarke, A, *Book review by* Ihle, D, **424**, 615

Human Proteome Organisation, China takes centre stage for liver proteome, *News*, Cyranoski, D, **425**, 441

human rights, Congo massacre probe enlists forensic team, *News in brief*, **422**, 794

Statistical model leaves Peru counting the cost of civil war, *News*, Knight, J, **425**, 6

humanin, Humanin peptide suppresses apoptosis by interfering with Bax activation, *Letter to Nature*, Guo, B, Zhai, D, Cabezas, E, Welsh, K, Nouraini, S, Satterthwait, A C, Reed, J C, **423**, 456

humanitarian aid, Aid workers fear impending disaster in Basra, *News*, Schiermeier, Q, Kramer, T, **422**, 459

humanities, The Hedgehog, the Fox, and the Magister's Pox: Mending the Gap Between Science and the Humanities, Gould, S J, *Book review by* Hull, D, **422**, 810

Humboldt, Alexander von, Separate achievements of the Humboldt brothers, *Correspondence*, Peters, W S, **423**, 480

Humboldt, Wilhelm von, Separate achievements of the Humboldt brothers, *Correspondence*, Peters, W S, **423**, 480

hummingbirds, Evolution: Flowers to fit the bill, *News and views*, Whitfield, J, **423**, 30

humoral immunity, SAP is required for generating long-term humoral immunity, *Letter to Nature*, Crotty, S, Kersh, E N, Cannons, J, Schwartzberg, P L, Ahmed, R, **421**, 282

hunchback, The genes *orthodenticle* and *hunchback* substitute for *bicoid* in the beetle *Tribolium*, *Letter to Nature*, Schroder, R, **422**, 621

hunting, The law of the jungle, *News feature*, Whitfield, J, **421**, 8

Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551

Ecology: Hunting and fox numbers in the United Kingdom, *Brief communication*, Aebischer, N J, Baker, S E, Johnson, P J, Macdonald, D W, Reynolds, J C, **423**, 400

Reply: Ecology: Hunting and fox numbers in the United Kingdom, *Brief communication*, Baker, P J, Harris, S, Webbon, C C, **423**, 400

Sheep horns downsized by hunters' taste for trophies, *News*, Whitfield, J, **426**, 595

Undesirable evolutionary consequences of trophy hunting, *Letter to Nature*, Coltman, D W, O'Donoghue, P, Jorgensen, J T, Hogg, J T, Strobeck, C, Festa-Blanchet, M, **426**, 655

huntingtin protein, Neuroscience: Transport delays, *News and views*, Pilcher, H R, **425**, 573

Huntington's disease, Pivotal role of oligomerization in expanded polyglutamine neurodegenerative disorders, *Letter to Nature*, Sánchez, I, Mahike, C, Yuan, J, **421**, 373

Neuroscience: Transport delays, *News and views*, Pilcher, H R, **425**, 573

hurricanes, Meteorology: Getting the wind up, *News and views*, Langenberg, H, **422**, 273

Hutchinson–Gilford progeria syndrome, Recurrent *de novo* point mutations in lamin A cause Hutchinson–Gilford progeria syndrome, *Letter to Nature*, Eriksson, M, Brown, W T, Gordon, L B, Glynn, M W, Singer, J, Scott, L, Erdos, M R, Robbins, C M, Moses, T Y, Berglund, P, Dutra, A, Pak, E, Durkin, S, Csoka, A B, Boehnke, M, Glover, T W, Collins, F S, **423**, 293

A progeroid syndrome in mice is caused by defects in A-type lamins, *Letter to Nature*, Mounkes, L C, Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L, **423**, 298

Hutton, James, The Man Who Found Time: James Hutton and the Discovery of the Earth's Antiquity, Repcheck, J, *Book review by* Oldroyd, D R, **423**, 920

hybridization, Plant biology: Blooming extension at the roadside, *News and views*, Fletcher, P, **424**, 31

hydrocarbons, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28

Hydrocarbons and the evolution of human culture, *Insight commentary*, Hall, C, Tharakan, P, Hallock, J, Cleveland, C, Jefferson, M, **426**, 318

The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, Berner, R A, **426**, 323

Organic-inorganic interactions in petroleum-producing sedimentary basins, *Insight review article*, Seewald, J S, **426**, 327

Understanding the thermal evolution of deep-water continental margins, *Insight review article*, White, N, Thompson, M, Barwise, T, **426**, 334

hydrocarbons, cuticular, Social insects: Cuticular hydrocarbons inform task decisions, *Brief communication*, Greene, M J, Gordon, D M, **423**, 32

hydrodynamics, How to walk on water, *News and views*, Dickson, M, **424**, 621

The hydrodynamics of water strider locomotion, *Letter to Nature*, Hu, D L, Chan, B, Bush, J W M, **424**, 663

hydrogen, Hydrogen cars fuel debate on basic research, *News*, Brumfiel, G, **422**, 104

Hydrogen: The Essential Element, Rigden, J S, *Book review by* Kleppner, D, **422**, 119

An enhanced cosmic-ray flux towards ζ Persei inferred from a laboratory study of the H_3^+–e^- recombination rate, *Letter to Nature*, McCall, B J, Huneycutt, A J, Saykally, R J, Geballe, T R, Djuric, N, Dunn, G H, Semaniak, J, Novotny, O, Al-Khalili, A, Ehlerding, A, Hellberg, F, Kalhori, S, Neau, A, Thomas, R, Österdahl, F, Larsson, M, **422**, 500

Dissociative hydrogen adsorption on palladium requires aggregates of three or more vacancies, *Letter to Nature*, Mitsul, T, Rose, M K, Fomin, E, Ogletree, D F, Salmeron, M, **422**, 705

Condensed-matter physics: Hydrogen falls into line, *News and views*, Martin, R M, Galli, G, **423**, 595

Universal alignment of hydrogen levels in semiconductors, insulators and solutions, *Letter to Nature*, Van de Walle, C G, Neugebauer, J, **423**, 626

Hydrogen lifts off — with a heavy load, *Commentary*, Grant, P M, **424**, 129

Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$, *Letter to Nature*, Walter, F, Bertoldl, F, Carilli, C, Cox, P, Lo, K Y, Neri, R, Fan, X, Omont, A, Strauss, M A, Menten, K M, **424**, 406

Astronomy: An elementary puzzle, *News and views*, Baron, E, **424**, 628

An asymptotic-giant-branch star in the progenitor system of a type Ia supernova, *Letter to Nature*, Hamuy, M, Phillips, M M, Suntzeff, N B, Maza, J, González, L E, Roth M, Krisciunas, K, Morrell, N, Green, E M, Persson, S E, McCarthy, P J, **424**, 651

Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H_2, *Letter to Nature*, Rahn, T, Eiler, J M, Boering, K A, Wennberg, P O, McCarthy, M C, Tyler, S, Schauffler, S, Donnelly, S, Atlas, E, **424**, 918

hydrogen bomb, California laboratory mourns loss of H-bomb pioneer, *News*, Knight, J, **425**, 226

Obituary: Edward Teller (1908–2003), *News and views*, Maddox, J, **425**, 362

hydrogen bonding, Hydrogen bonding: Single enantiomers from a chiral-alcohol catalyst, *Brief communication*, Huang, Y, Unni, A K, Thadani, A N, Rawal, V H, **424**, 146

Physical Chemistry: Stronger hydrogen bonds, *News and views*, Ball, P, **424**, 630

hydrogen peroxide, Redox regulation of protein tyrosine phosphate 1B involves a sulphenyl-amide intermediate, *Letter to Nature*, Salmeen, A, Andersen, J N, Myers, M P, Meng, T-C, Hinks, J A, Tonks, N K, Barford, D, **423**, 769

hydrology, Climate studies hold key to future of desalination plant, *News*, Dalton, R, **422**, 4

African project seeks model solution to water shortage, *News*, Schiermeier, Q, **424**, 359

Hydrology: White Nile past, *News and views*, Clarke, T, **426**, 136

hydrophobicity, Chemical physics: How to keep dry in water, *News and views*, Ball, P, **423**, 25

hydrothermal circulation, Earth science: Ins and outs on the ocean floor, *News and views*, Sclater, J G, **421**, 590

Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618

hydrothermal vents, Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean, *Letter to Nature*, Edmonds, H N, Michael, P J, Baker, E T, Connelly, D P, Snow, J E, Langmuir, C H, Dick, H J B, Muhe, R, German, C R, Graham, D W, **421**, 252

Magmatic events can produce rapid changes in hydrothermal vent chemistry, *Letter to Nature*, Lilley, M D, Butterfield, D A, Lupton, J E, Olson, E J, **422**, 878

Constrained circulation at Endeavour ridge facilitates colonization by vent larvae, *Letter to Nature*, Thomson, R E, Mihaly, S F, Rabinovich, A B, McDuff, R E, Veirs, S R, Stahr, F R, **424**, 545

hydroxyapatite, Bone recognition mechanism of porcine osteocalcin from crystal structure, *Letter to Nature*, Hoang, Q Q, Sicheri, F, Howard, A J, Yang, D S C, **425**, 977

5-hydroxytryptamine, A cytoplasmic region determines single-channel conductance in 5-HT_3 receptors, *Letter to Nature*, Kelley, S P, Dunlop, J I, Kirkness, E F, Lambert, J J, Peters, J A, **424**, 321

hyperalgesia, Analgesia and hyperalgesia from GABA-mediated modulation of the cerebral cortex, *Letter to Nature*, Jasmin, L, Rabkin, S D, Granato, A, Boudah, A, Ohara, P T, **424**, 316

hyperelasticity, Hyperelasticity governs dynamic fracture at a critical length scale, *Article*, Buehler, M J, Abraham, F F, Gao, H, **426**, 141

hyperpolarization-activated cyclic nucleotide-modulated channels, Structural basis for modulation and agonist specificity of HCN pacemaker channels, *Letter to Nature*, Zagotta, W N, Olivier, N B, Black, K D, Young, E C, Olson, R, Gouaux, E, **425**, 200

hypoxia, Immunology: Oxygen and the inflammatory cell, *News and views*, Nathan, C, **422**, 675

Cancer: Out of air is not out of action, *News and views*, Bottaro, D P, Liotta, L A, **423**, 593

Cancer: Cues for migration, *News and views*, Bernards, R, **425**, 247

hypoxia-inducible factor-1α, Immunology: Oxygen and the inflammatory cell, *News and views*, Nathan, C, **422**, 675

ICD-1, Suppression of CED-3-independent apoptosis by mitochondrial βNAC in *Caenorhabditis elegans*, *Letter to Nature*, Bloss, T A, Witze, E S, Rothman, J H, **424**, 1066

ice, Alpine thaw breaks ice over permafrost's role, *News*, Schiermeier, Q, **424**, 712

High interannual variability of sea ice thickness in the Arctic region, *Letter to Nature*, Laxon, S, Peacock, N, Smith, D, **425**, 947

Glaciology: Thin ice, *News and views*, Ball, P, **426**, 28

ice age, Ice-age steppe vegetation in east Beringia, *Brief communication*, Zazula, G D, Froese, D G, Schweger, C E, Mathewes, R W, Beaudoin, A B, Telka, A M, Harington, C R, Westgate, J A, **423**, 603

Climate change: Chilled out in the ice-age Atlantic, *News and views*, Mix, A C, **425**, 32

Planetary science: Icy martian mysteries, *News and views*, Baker, V R, **426**, 779

Recent ice ages on Mars, *Article*, Head, J W, Mustard, J F, Kreslavsky, M A, Milliken, R E, Marchant, D R, **426**, 797

Ice, Cloud and Land Elevation Satellite (ICESat), Laser breakdown takes satellite's eye off the ice, *News in brief*, **424**, 244

ice-breakers, Antarctic research frozen out of Japan's budget plans, *News*, Kandachi, K, **426**, 108

ICE1 Plant biology: Ice on top, *News and views*, Hemmels, M-T, **422**, 677

icebergs, Oceanography: No go with the floe, *News and views*, Lincoln, T, **425**, 143

Iceland, DNA study deepens rift over Iceland's genetic heritage, *News*, Abbott, A, **421**, 678

Ichthyostega, A uniquely specialized ear in early tetrapod, *Letter to Nature*, Clack, J A, Ahlberg, P E, Finney, S M, Dominguez Alonso, P, Robinson, J, Ketcham, R A, **425**, 65

ideas, Galileo's Finger, Atkins, P, *Book review by* Wilczek, F, **422**, 377

identity, The person within, *Concepts*, Damasio, A, **423**, 227

Ig Nobel prizes, Spoof Nobels take researchers for a ride, *News*, Nadis, S, **425**, 550

IGF2, A regulatory mutation in *IGF2* causes a major QTL effect on muscle growth in the pig, *Letter to Nature*, Van Laere, A-S, Nguyen, M, Braunschweig, M, Nezer, C, Collette, C, Moreau, L, Archibald, A L, Haley, C S, Buys, N, Tally, M, Andersson, G, Georges, M, Andersson, L, **425**, 832

IκB kinase, Histone H3 phosphorylation by IKK-a is critical for cytokine-induced gene expression, *Letter to Nature*, Yamamoto, Y, Verma, U N, Prajapati, S, Kwak, Y-T, Gaynor, R B, **423**, 655

A nucleosomal function for IκB kinase-α in NF-κB-dependent gene expression, *Letter to Nature*, Anest, V, Hanson, J L, Cogswell, P C, Steinbrecher, K A, Strahl, B D, Baldwin, A S, **423**, 659

Illumina, Legal row looms for gene-map firm, *News*, Dalton, R, **423**, 470

illusion, Why We See What We Do: An Empirical Theory of Vision, Purves, D, Lotto, R B, *Book review by* Morgan, M, **423**, 919

illustration, Is a picture worth 1000 words?, *Commentary*, Ottino, J M, **421**, 474

The subtle beauty of art in the service of science, *Correspondence*, Ippolito, F, **422**, 15

Illustration: database pictures tell a true story, *Correspondence*, Catton, C, Shotton, D, **422**, 374

Illustration: images fail to portray dynamic skies, *Correspondence*, Barnes, J E, **422**, 374

Illustration: A fine body of work, *Book review*, Purton, M, **423**, 921

imaging, Imaging: Nanoprobes on the blink, *News and views*, Ball, P, **421**, 907

Laser to shed light on delicate tissue, *News in brief*, **423**, 676

Achromatic Fresnel optics for wideband extreme-ultraviolet and X-ray imaging, *Letter to Nature*, Wang, Y, Yun, W, Jacobsen, C, **424**, 50

Imd proteins, The immune response of *Drosophila*, *Review article*, Hoffmann, J A, **426**, 33

immigration, Oxford professor accused of discrimination over e-mail, *News*, Watzman, H, **424**, 7

Academic hopefuls set for pole position in US visa applications, *News in brief*, **424**, 120

immortality, Merchants of Immortality: Chasing the Dream of Human Life Extension, Hall, S, *Book review by* Olshansky, S J, **424**, 880

immune response, SAP is required for generating long-term humoral immunity, *Letter to Nature*, Crotty, S, Kersh, E N, Cannons, J, Schwartzberg, P L, Ahmed, R, **421**, 282

Nicotinic acetylcholine receptor α7 subunit is an essential regulator of inflammation, *Letter to Nature*, Wang, H, Yu, M, Ochani, M, Amella, C A, Tanovic, M, Susarla, S, Li, J H, Wang, H, Yang, H, Ulloa, L, Al-Abed, Y, Czura, C J, Tracey, K J, **421**, 384

$CD4^+$ T cells are required for secondary expansion and memory in $CD8^+$ T lymphocytes, *Letter to Nature*, Janssen, E M, Lemmens, E E, Wolfe, T, Christen, U, von Herrath, M G, Schoenberger, S P, **421**, 852

Insights into IgA-mediated immune responses from the crystal structures of human FcαRI and its complex with IgA1-Fc, *Article*, Herr, A B, Ballister, E R, Bjorkman, P J, **423**, 614

ER-phagosome fusion defines an MHC class I cross-presentation compartment in dendritic cells, *Letter to Nature*, Guermonprez, P, Saveanu, L, Kleijmeer, M, Davoust, J, van Endert, P, Amigorena, S, **425**, 397

The immune response of *Drosophila*, *Review article*, Hoffmann, J A, **426**, 33

immune system, Activation of human $CD4^+$ cells with CD3 and CD46 induces a T-regulatory cell 1 phenotype, *Letter to Nature*, Kemper, C, Chan, A C, Green, J M, Brett, K A, Murphy, K M, Atkinson, J P, **421**, 388

The unsung heroes, *Concepts*, Parham, P, **423**, 20

Fitness costs of R-gene-mediated resistance in *Arabidopsis thaliana*, *Letter to Nature*, Tian, D, Traw, M B, Chen, J Q, Kretman, M, Bergelson, J, **423**, 74

Corrigendum: Short interfering RNA confers intracellular antiviral immunity in human cells, *Letter to Nature*, Gitlin, L, Karelsky, S, Andino, R, **423**, 197

Immunology: Assisted suicide for B cells, *News and views*, Arnheim, L, **423**, 238
Immunology: Another toll road, *News and views*, Yeh, W-C, Chen, N-J, **424**, 736
Professional secrets, *News and views*, Roy, C R, **425**, 351
Molecular identification of a danger signal that alerts the immune system to dying cells, *Letter to Nature*, Shi, Y, Evans, J E, Rock, K L, **425**, 516

immunity, The unsung heroes, *Concepts*, Parham, P, **423**, 20
Innate defence: Evidence for memory in invertebrate immunity, *Brief communication*, Kurtz, J, Franz, K, **425**, 37

immunobiology, Obituary: Charles A. Janeway Jr (1943–2003), *News and views*, Paul, W E, Germain, R N, **423**, 237

immunofluorescence, Fission yeast mod5p regulates polarized growth through anchoring of tea1p at cell tips, *Letter to Nature*, Snaith, H A, Sawin, K E, **423**, 647

immunoglobulins, Hidden complexity in the mechanical properties of titin, *Letter to Nature*, Williams, P M, Fowler, S B, Best, R B, Toca-Herrera, J L, Scott, K A, Steward, A, Clarke, J, **422**, 446
Insights into IgA-mediated immune responses from the crystal structures of human FcαRI and its complex with IgA1-Fc, *Article*, Herr, A B, Ballister, E R, Bjorkman, P J, **423**, 614

immunology, Immunology: Mobilizing the army, *News and views*, Shapiro, S D, **421**, 223
Feature: The double helix and immunology, *Feature*, Nossal, G J V, **421**, 440
Immunology: Vaccinia on the Toll road, *News and views*, Heemels, M-T, **421**, 907
Immunology: Fast and feel good?, *News and views*, Kuchroo, V K, Nicholson, L B, **422**, 27
Immunology: Geared up for antibody production, *News and views*, Heemels, M-T, **422**, 33
Immunology: Lone rangers, *News and views*, Schuldt, A, **422**, 132
Selection of evolutionarily conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **422**, 164
Ecological and immunological determinants of influenza evolution, *Letter to Nature*, Ferguson, N M, Galvani, A P, Bush, R M, **422**, 428
Immunology: A numbers game, *News and views*, Heemels, M-T, **422**, 577
Medicine: Collateral damage repaired, *News and views*, Steinman, L, **422**, 671
Immunology: Oxygen and the inflammatory cell, *News and views*, Nathan, C, **422**, 675
Injection of adult neurospheres induces recovery in a chronic model of multiple sclerosis, *Article*, Pluchino, S, Quattrini, A, Brambilla, E, Gritti, A, Salani, G, Dina, G, Galli, R, Del Carro, U, Amadio, S, Bergami, A, Furlan, R, Comi, G, Vescovi, A L, Martino, G, **422**, 688
The unsung heroes, *Concepts*, Parham, P, **423**, 20
Immunology: Assisted suicide for B cells, *News and views*, Arnheim, L, **423**, 238
Corrigendum: Selection of evolutionary conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **423**, 1018
Immunology: Hide and seek, *News and views*, Heemels, M-T, **424**, 31
Science as Autobiography: The Troubled Life of Niels Jerne, Soderqvist, T, *Book review by* Nossal, G J V, **424**, 253
A cloned horse born to its dam twin, *Brief communication*, Galli, C, Lagutina, I, Crotti, G, Colleoni, S, Turini, P, Ponderato, N, Duchi, R, Lazzari, G, **424**, 635
Immunology: Another toll road, *News and views*, Yeh, W-C, Chen, N-J, **424**, 736
Immunology: Who turned on the T cells?, *News and views*, Heemels, M-T, **424**, 740
Immunology: Arresting asthma, *News and views*, Pilcher, H R, **425**, 34
Immunology: Dangerous liaisons, *News and views*, Heath, W R, Carbone, F R, **425**, 460
Immunology: Hepatitis A virus link to atopic disease, *Brief communication*, McIntire, J J, Umetsu, S E, Macaubus, C, Hoyte, E G, Cinnioglu, C, Cavalli-Sforza, L L, Barsh, G S, Hallmayer, J F, Underhill, P A, Risch, N J, Freeman, G J, DeKruyff, R H, Umetsu, D T, **425**, 576
Immunology: Long gone, but not forgotten, *News and views*, Heemels, M-T, **426**, 402

impact assessment, No reduction in risk of a massive asteroid impact, *Correspondence*, Chapman, C R, Morrison, D, **421**, 473
Long-lost wave report sinks asteroid impact theory, *News*, Dalton, R, **421**, 679

impact factors *see* bibliometric data

imperfections, Condensed-matter physics: The quest for imperfection, *News and views*, Rosenbaum, T F, **426**, 135

implants, Natural-born Cyborgs: Minds, Technologies, and the future of Human Intelligence, Clarke, A, *Book review by* Ihle, D, **424**, 615

implied motion, Neural correlates of implied motion, *Letter to Nature*, Krekelberg, B, Dannenberg, S, Hoffman, K-P, Bremmer, F, Ross, J, **424**, 674

Importin β, RanGTP mediates nuclear pore complex assembly, *Letter to Nature*, Walther, T C, Askjaer, P, Gentzel, M, Habermann, A, Griffiths, G, Wilm, M, Mattaj, I W, Hetzer, M, **424**, 689

in-vitro fertilization, Reining in assisted reproduction, *Opinion*, **422**, 647
Seeds of doubt, *News feature*, Powell, K, **422**, 656
Test-tube babies 'not at risk of brain defects', *News in brief*, **424**, 120
Synthetic sex cells, *News feature*, Dennis, C, **424**, 364

inbreeding, Disease susceptibility in California sea lions, *Brief communication*, Acevedo-Whitehouse, K, Gulland, F, Greig, D, Amos, W, **422**, 35
Females increase offspring heterozygosity and fitness through extra-pair matings, *Letter to Nature*, Foerster, K, Delhey, K, Johnsen, A, Lifjeld, J T, Kempenaers, B, **425**, 714

INCENP protein, Cell cycle: Passenger acrobatics, *News and views*, Higuchi, T, Uhlmann, F, **426**, 780

incongruence, Genome-scale approaches to resolving incongruence in molecular phylogenies, *Article*, Rokas, A, Williams, B L, King, N, Carroll, S B, **425**, 798

India, Indian cricketers team up to hit polio for six, *News in brief*, **421**, 682
Epidemiologists warn of widespread arsenic problem in India, *News in brief*, **421**, 778
A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17
India pledges deluge of funds to water plan, *News*, Jayaraman, K S, **422**, 790
Monsoon rains start to ease India's drought, *News*, Jayaraman, K S, **423**, 673
India plans to bring neutrino science home, *News*, Jayaraman, K S, **423**, 909

India, agriculture, Anger grows over plan to uproot Indian crop institute, *News*, Jayaraman, K S, **424**, 477

India, Babri Masjid mosque, Minister knocked down by court verdict on mosque demolition, *News in brief*, **425**, 442

India, biotechnology, Pre-genomics training hinders Indian biotech, *Correspondence*, Ranganath, R M, **422**, 802

India, computer software, A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17

India, Media Lab Asia, MIT pulls out of Asian Media Lab in argument over rule, *News*, Jayaraman, K S, **423**, 213

India, military, United States and India forge military research deal, *News in brief*, **426**, 488

India, nuclear power, India gives go-ahead for fast-breeder reactor project, *News in brief*, **425**, 114

India, research funding, India budgets for boost in research, *News*, Jayaraman, K S, **422**, 6

India, science policy, India prime minister pledges to revamp science, *News*, Jayaraman, K S, **421**, 101

India, solar energy, A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17

India, space exploration, India launches plan for mission to map the moon, *News*, Jayaraman, K S, **424**, 985

India, supercomputers, A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17

India, telecommunications, A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17

India, transgenic crops, India joins dissenters in row over transgenic food aid, *News in brief*, **421**, 103
India debates results of its first transgenic cotton crop, *News*, Jayaraman, K S, **421**, 681

Indian Ocean, Predicted recurrences of mass coral mortality in the Indian Ocean, *Letter to Nature*, Sheppard, C R C, **425**, 294

Indian Space Research Organisation, India's mission to the Moon is worthwhile, *Correspondence*, Narasimba, R, **425**, 763

indigenous peoples, Spiritual link is part of traditional knowledge, *Correspondence*, Kitchikeesic Juden, L, **421**, 313

indigobirds, Speciation by host switch in brood parasitic indigobirds, *Letter to Nature*, Sorenson, M D, Sefc, K M, Payne, R B, **424**, 928

Indo-European languages, Language-tree divergence times support the Anatolian theory of Indo-European origin, *Letter to Nature*, Gray, R D, Atkinson, Q D, **426**, 435

Indo-Pacific warm pool, Global change: Leads, lags and the tropics, *News and views*, Dunbar, R B, **421**, 121
Magnitude and timing of temperature change in the Indo-Pacific warm pool during deglaciation, *Letter to Nature*, Visser, K, Thunell, R, Stott, L, **421**, 152
Climate: Warmth, wind and water, *News and views*, Lincoln, T, **426**, 514

Indonesian throughflow, Cool Indonesian throughflow as a consequence of restricted surface layer flow, *Letter to Nature*, Gordon, A L, Susanto, R D, Vranes, K, **425**, 824

industrial espionage, Russian scientists face long fight for justice, *News*, MacWilliams, B, **424**, 477

industry–academic relations, Biotech joint venture flounders in wake of Syngenta's silence, *News in brief*, **421**, 6
Pesticide firms ask to use human data to assess safety, *News*, Reichhardt, T, **421**, 200
Secrecy is increasing in step with competition, *Correspondence*, Walsh, J P, Hong, W, **422**, 801
Biologists take tentative steps towards bespoke cancer drugs, *News*, Cyranoski, D, **423**, 209
Syngenta ends plant-research deal with Berkeley, *News*, Dalton, R, **426**, 216
Berkeley accused of biotech bias as ecologist is denied tenure, *News*, Dalton, R, **426**, 591
Scientists attack industrial influence, *News*, Knight, J, **426**, 741

infection, Just mix and patch, *News and views*, Mostov, K, Zegers, M, **422**, 267
Segregation of receptor and ligand regulates activation of epithelial growth factor receptor, *Letter to Nature*, Vermeer, P D, Einwalter, L A, Moninger, T O, Rokhlina, T, Kern, J A, Zabner, J, Welsh, M J, **422**, 322
Microbial pathogenesis and cytoskeletal function, *Insight review article*, Gruenheid, S, Finlay, B B, **422**, 775
The unsung heroes, *Concepts*, Parham, P, **423**, 20
Positioning of follicular dendritic cells within the spleen controls prion neuroinvasion, *Letter to Nature*, Prinz, M, Heikenwalder, M, Junt, T, Schwarz, P, Glatzel, M, Heppner, F L, Fu, Y-X, Lipp, M, Aguzzi, A, **425**, 957

infectious diseases, Virology: Smallpox selective potential, *News and views*, Clarke, T, **426**, 618
The role of evolutionary in the emergence of infectious diseases, *Letter to Nature*, Antia, R, Regoes, R R, Koella, J C, Bergstrom, C T, **426**, 658
Developing-world health: the fightback starts here, *News feature*, Butler, D, **426**, 754

infertility, Reining in assisted reproduction, *Opinion*, **422**, 647
Seeds of doubt, *News feature*, Powell, K, **422**, 656
Low embryo count fuels US stem-cell debate, *News*, Powell, K, **423**, 213

inflammation, Immunology: Mobilizing the army, *News and views*, Shapiro, S D, **421**, 223
Inflammation: A nervous connection, *News and views*, Libert, C, **421**, 328
Nicotinic acetylcholine receptor α7 subunit is an essential regulator of inflammation, *Letter to Nature*, Wang, H, Yu, M, Ochani, M, Amella, C A, Tanovic, M, Susarla, S, Li, J H, Wang, H, Yang, H, Ulloa, L, Al-Abed, Y, Czura, C J, Tracey, K J, **421**, 384
Inflammation: Border crossings, *News and views*, Ager, A, **421**, 703
Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744
Poetic pride in steps towards knowledge, *Correspondence*, Wong, M-L, **422**, 559
Immunology: Oxygen and the inflammatory cell, *News and views*, Nathan, C, **422**, 675
Evolving concepts of rheumatoid arthritis, *Insight review article*, Firestein, G S, **423**, 356

influenza, Vaccine sought as bird flu infects humans, *News*, Cyranoski, D, **422**, 6
Ecological and immunological determinants of influenza evolution, *Letter to Nature*, Ferguson, N M, Galvani, A P, Bush, R M, **422**, 428
Virology: Pigs duck out of the influenza mix, *News and views*, Clarke, T, **423**, 702

influenza, birds, as bird flu sparks alarm in Hong Kong, *News in brief*, **421**, 882

influenza, vaccines, 'Reverse genetics' could offer forward-thinking flu vaccine, *News*, Pearson, H, **426**, 742

informatics, From genomics to proteomics, *Insight overview*, Tyers, M, Mann, M, **422**, 193

information, Information Feudalism: Who Owns the Knowledge Economy?, Drahos, P, Braithwaite, J, *Book review by* Thomas, S, **421**, 577

information storage, Single-nanowire electrically driven lasers, *Letter to Nature*, Duan, X, Huang, Y, Agarwal, R, Lieber, C M, **421**, 241

infrared, Infrared observatory prepares for lift-off, *News*, Reichhardt, T, **422**, 549

inheritance, Nature via Nurture: Genes, Experience and What Makes Us Human, Ridley, M, *Book review by* Berry, A, **422**, 814
Inheritance of a pre-inactivated paternal X chromosome in early mouse embryos, *Letter to Nature*, Huynh, D, Lee, J T, **426**, 857

innate defence, Innate defence: Evidence for memory in invertebrate immunity, *Brief communication*, Kurtz, J, Franz, K, **425**, 37

innate immunity, The unsung heroes, *Concepts*, Parham, P, **423**, 20

inorganic chemistry, Inorganic chemistry: Molecules lend a hand, *News and views*, Ball, P, **422**, 487

insanity, The Confinement of the Insane: International Perspectives, 1800–1965, Porter, R, Wright, D, *Book review by* Grob, G N, **426**, 230

insect behaviour, Insect behaviour: Motion camouflage in dragonflies, *Brief communication*, Mizutani, A, Chahl, J S, Srinivasan, M V, **423**, 604

insecticides, Comparative genomics: Insecticide resistance in mosquito vectors, *Brief communication*, Weill, M, Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M, **423**, 136
Corrigendum: Insecticide resistance in mosquito vectors, *Brief communication*, Weill, M, Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M, **425**, 366

insects, Polarized light as a butterfly mating signal, *Brief communication*, Sweeney, A, Jiggins, C, Johnsen, S, **423**, 31
A fly in the biogeographic ointment, *Brief communication*, Ashworth, A C, Thompson, F C, **423**, 135
Parasitology: In the bag, *News and views*, Whitfield, J, **423**, 702
Hive beetle causes a buzz in Europe, *News*, Graf, P, **423**, 793
Insect orientation to polarized moonlight, *Brief communication*, Dacke, M, Nilsson, D-E, Scholtz, C H, Byrne, M, Warrant, E J, **424**, 33
Form and Function in the Honey Bee, Goodman, L, *Book review by* Seeley, T D, **424**, 372
Psychophysics: Bees trade off foraging speed for accuracy, *Brief communication*, Chittka, L, Dyer, A G, Bock, F, Dornhaus, A, **424**, 388
Pheidole in the New World: A Dominant, Hyperdiverse Ant Genus, Wilson, E O, *Book review by* Agosti, D, **424**, 727

Ant book deepens divide over web publishing, *News*, Dalton, R, **424**, 985
Mechanism of silk processing in insects and spiders, *Letter to Nature*, Jin, H-J, Kaplan, D L, **424**, 1057
Structural adaptability in the ligand-binding pocket of the ecdysone hormone receptor, *Letter to Nature*, Billas, I M L, Iwema, T, Garnier, J-M, Mitschler, A, Rochel, N, Moras, D, **426**, 91
Heat reward for insect pollinators, *Brief communication*, Seymour, R S, White, C R, Gibernau, M, **426**, 243
insects, behaviour, Sociobiology: Worker nepotism among polygynous ants, *Brief communication*, Hannonen, M, Sundstrom, L, **421**, 910
Reversal of sex roles in nuptial feeding, *Brief communication*, Arnqvist, G, Jones, T M, Elgar, M A, **424**, 387
insects, jumping, Froghopper insects leap to new heights, *Brief communication*, Burrows, M, **424**, 509
insects, locomotion, How to walk on water, *News and views*, Dickson, M, **424**, 621
The hydrodynamics of water strider locomotion, *Letter to Nature*, Hu, D L, Chan, B, Bush, J W M, **424**, 663
insects, mating behaviour, Captivity masks inbreeding effects on male mating success in butterflies, *Letter to Nature*, Joron, M, Brakefield, P M, **424**, 191
insects, photonic structures, Photonics structures in biology, *Insight review article*, Vukusic, P, Sambles, J R, **424**, 852
insects, signalling, Insect signalling: Components of giant hornet alarm pheromone, *Brief communication*, Ono, M, Terabe, H, Hori, H, Sasaki, M, **424**, 637
insects, social, Social insects: Cuticular hydrocarbons inform task decisions, *Brief communication*, Greene, M J, Gordon, D M, **423**, 32
Corrigendum: Fungus-growing ants use antibiotic-producing bacteria to control garden parasites, *Letter to Nature*, Currie, C R, Scott, J A, Summerbell, R C, Malloch, D, **423**, 461
Ants join online colony to boost conservation efforts, *News*, Dalton, R, **424**, 242
Complex hybrid origin of genetic caste determination in harvester ants, *Letter to Nature*, Helms Cahan, S, Keller, L, **424**, 306
insects, vision, Vision: In the eye of the beholder, *News and views*, Whitfield, J, **425**, 678
insects, wings, Loss and recovery of wings in stick insects, *Letter to Nature*, Whiting, M F, Bradler, S, Maxwell, T, **421**, 264
institute of Animal Technology (UK), ...but activists force hotel to ditch meeting, *News in brief*, **422**, 250
insulators, Universal alignment of hydrogen levels in semiconductors, insulators and solutions, *Letter to Nature*, Van de Walle, C G, Neugebauer, J, **423**, 626
insulin, Free fatty acids regulate insulin secretion from pancreatic β cells through GRP40, *Letter to Nature*, Itoh, Y, Kawamata, Y, Harada, M, Kobayashi, M, Fujii, R, Fukusumi, S, Ogi, K, Hosoya, M, Tanaka, Y, Uejima, H, Tanaka, H, Maruyama, M, Satoh, R, Okubo, S, Kizawa, H, Komatsu, H, Matsumura, F, Noguchi, Y, Shinohara, T, Hinuma, S, Fujisawa, Y, Fujino, M, **422**, 173
The exocyst complex is required for targeting of Glut4 to the plasma membrane by insulin, *Letter to Nature*, Inoue, M, Chang, L, Hwang, J, Chiang, S-H, Saltiel, A R, **422**, 629
Insulin-regulated hepatic gluconeogenesis through FOXO1-PGC-1α interaction, *Letter to Nature*, Puigserver, P, Rhee, J, Donovan, J, Walkey, C J, Yoon, J C, Oriente, F, Kitamura, Y, Altomonte, J, Dong, H, Accili, D, Spiegelman, B M, **423**, 550
Diabetes: Molecular suspect fingered, *News and views*, Thomas, C, **424**, 265
insulin receptors, Developmental biology: Gender benders, *News and views*, Koopman, P, **426**, 241
Testis determination requires insulin receptor family function in mice, *Letter to Nature*, Nef, S, Verma-Kuvari, S, Merenmies, J, Vassalli, J-D, Efstratiadis, A, Accili, D, Parada, L F, **426**, 291
insulin resistance, Cloning of adiponectin receptors that mediate antidiabetic metabolic effects, *Letter to Nature*, Yamauchi, T, Kamon, J, Ito, Y, Tsuchida, A, Yokomizo, T, Kita, S, Sugiyama, T, Miyagishi, M, Hara, K, Tsunoda, M, Murakami, K, Ohteki, T, Uchida, S, Takekawa, S, Waki, H, Tsuno, N H, Shibata, Y, Terauchi, Y, Froguel, P, Tobe, K, Koyasu, S, Taira, K, Kitamura, T, Shimizu, T, Nagal, R, Kadowaki, T, **423**, 762
insulin-like growth factors, IGF-1 receptor regulates lifespan and resistance to oxidative stress in mice, *Letter to Nature*, Holzenberger, M, Dupont, J, Ducos, B, Leneuve, P, Geloen, A, Even, P C, Cervera, P, Le Bouc, Y, **421**, 182
A regulatory mutation in *IGF2* causes a major QTL effect on muscle growth in the pig, *Letter to Nature*, Van Laere, A-S, Nguyen, M, Braunschweig, M, Nezer, C, Collette, C, Moreau, L, Archibald, A L, Haley, C S, Buys, N, Tally, M, Andersson, G, Georges, M, Andersson, L, **425**, 832
insurance, Insurers left reeling by disaster year, *News*, Schiermeier, Q, **421**, 99
Bill promises genetic privacy for US citizens, *News in brief*, **423**, 472
Integrated Ocean Drilling Program, Ocean drilling project gets international relaunch, *News in brief*, **425**, 337
Digging in, *News feature*, Cyranoski, D, **426**, 492
integrins, Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
Loss of integrin αvβ6-mediated TGF-β activation causes Mmp12-dependent emphysema, *Letter to Nature*, Morris, D G, Huang, X, Kaminski, N, Wang, Y, Shapiro, S D, Dolganov, G, Glick, A, Sheppard, D, **422**, 169
Medicine: Collateral damage repaired, *News and views*, Steinman, L, **422**, 671
Injection of adult neurospheres induces recovery in a chronic model of multiple sclerosis, *Article*, Pluchino, S, Quattrini, A, Brambilla, E, Gritti, A, Salani, G, Dina, G, Galli, R, Del Carro, U, Amadio, S, Bergami, A, Furlan, R, Comi, G, Vescovi, A L, Martino, G, **422**, 688
Cell biology: The molecules that make muscle, *News and views*, Gullberg, D, **424**, 138
Two-piconewton slip bond between fibronectin and the cytoskeleton depends on talin, *Letter to Nature*, Jiang, G, Glannone, G, Critchley, D R, Fukumoto, E, Sheetz, M P, **424**, 334
Neurobiology: A new way to network, *News and views*, Mehlen, P, **424**, 381
Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function, *Article*, Serini, G, Valdembri, D, Zanivan, S, Morterra, G, Burkhardt, C, Caccavari, F, Zammataro, L, Primo, L, Tamagnone, L, Logan, M, Tessier-Lavigne, M, Taniguchi, M, Püschel, A W, Bussolino, F, **424**, 391
Semaphorin 7A promotes axon outgrowth through integrins and MAPKs, *Article*, Pasterkamp, R J, Peschon, J J, Spriggs, M K, Kolodkin, A L, **424**, 398
Erratum: Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function, *Letter to Nature*, Serini, G, Valdembri, D, Zanivan, S, Morterra, G, Burkhardt, C, Caccavari, F, Zammataro, L, Primo, L, Tamagnone, L, Logan, M, Tessier-Lavigne, M, Taniguchi, M, Puschel, A W, Bussolino, F, **424**, 974
intellectual property, Spiritual link is part of traditional knowledge, *Correspondence*, Kitchikeesic Juden, L, **421**, 313
Information Feudalism: Who Owns the Knowledge Economy?, Drahos, P, Braithwaite, J, *Book review by* Thomas, S, **421**, 577
US acts to keep SARS sequence public, *News in brief*, **423**, 214
Drive for patent-free innovation gathers pace, *News*, Butler, D, **424**, 118
Japanese push for patents 'sidelines basic research', *News in brief*, **424**, 244
Business backlash kills off software meeting, *News*, Butler, D, **424**, 984
An ethical dilemma, *Commentary*, Rose, H, **425**, 123
intelligence, Original Intelligence: Unlocking the Mystery of Who We Are, Premack, D, Premack, A, *Book review by* Bryant, P, **425**, 17
Intelligence of Apes and Other Rational Beings, Rumbaugh, D M, Washburn, D A, *Book review by* Whiten, A, **425**, 454
intelligent design, Designer scientific literature, *Correspondence*, Kutschera, U, **423**, 116
Interagency Autism Coordinating Committee, US draws up plans to tackle autism, *News*, Singer, E, **426**, 373
interbreeding, Fish farms' threat to salmon stocks exposed, *News*, Schiermeier, Q, **425**, 753
interferometers, An electronic Mach–Zehnder interferometer, *Letter to Nature*, Ji, Y, Chung, Y, Sprinzak, D, Heiblum, M, Mahalu, D, Shtrikman, H, **422**, 415
interferometry, Violation of a Bell-like inequality in single-neutron interferometry, *Letter to Nature*, Hasegawa, Y, Loidl, R, Badurek, G, Baron, M, Rauch, H, **425**, 45
interferon, Viral infection switches non-plasmacytoid dendritic cells into high interferon producers, *Letter to Nature*, Diebold, S S, Montoya, M, Unger, H, Alexopoulou, L, Roy, P, Haswell, L E, Al-Shamkhani, A, Flavell, R, Borrow, P, Reis e Sousa, C, **424**, 324
Integration of interferon-α/β signalling to p53 responses in tumour suppression and antiviral defence, *Article*, Takaoka, A, Hayakawa, S, Yanai, H, Stoiber, D, Negishi, H, Kikuchi, H, Sasaki, S, Imai, K, Shibue, T, Honda, K, Taniguchi, T, **424**, 516
Intergovernmental Panel on Climate Change, A globally coherent fingerprint of climate change impacts across natural systems, *Article*, Parmesan, C, Yohe, G, **421**, 37
Severe summertime flooding Europe, *Brief communication*, Christensen, J H. Christensen, O B, **421**, 805
Climate panel to seize political hot potatoes, *News*, Schiemeier, Q, **421**, 879
Possible or probable?, *Concepts*, Allen, A R, **425**, 242
interleukin-12, Autoimmunity: A case of mistaken identity, *News and views*, Watford, W T, O'Shea, J J, **421**, 706
Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744
interleukin-23, Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744
internal combustion, Chemistry: Internal combustion, *News and views*, Reimer, J, **426**, 508
International AIDS Society, HIV drug resistance triggers strategic switch, *News*, Check, E, **424**, 361
International Atomic Energy Agency, Iraqi looters spark alert over radiation risks, *News*, Brumfiel, G, **423**, 370
International Center for Agricultural Research in the Dry Areas (ICARDA), Seed bank raises hope of Iraqi crop comeback, *News*, Clarke, T, **424**, 242
International Council for the Exploration of the Sea, Stealth ship sets sail for a quiet life fishing for data, *News*, Moore, J, **423**, 7
International Council for Science, Is a scientific boycott ever justified?, *Commentary*, Blakemore, C, Dawkins, R, Noble, D. Yudkin, M, **421**, 314
Scientific freedom: new strategies are needed, *Correspondence*, Lubchenco, J, Rosswall, T, Warren, P, **421**, 785
Scientific freedom: some face a lonely dilemma, *Correspondence*, Macy, R, **421**, 785
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Anger grows over plan to uproot Indian crop institute, *News*, Jayaraman, K S, **424**, 477
International HapMap Project, Legal row looms for gene-map firm, *News*, Dalton, R, **423**, 470
The rough guide to the genome, *News feature*, Dennis, C, **425**, 758
Variation for all, *Opinion*, **426**, 739
Feature: The International HapMap Project, *Feature*, The International HapMap Consortium, **426**, 789
International Human Genome Sequencing Consortium, Human genome finished in time for DNA's golden jubilee, *News in brief*, **422**, 654
International Linear Collider, Towards a clean collider, *Opinion*, **426**, 105
International Rice Genome Sequencing Project, A recipe revolution, *News feature*, Cyranoski, D, **422**, 796
International Rice Research Institute, Rice institute need strong support, *Opinion*, **423**, 1
International Space Station, Columbia explosion may trigger fatal delays for space station, *News*, Reichhardt, T, **421**, 561
NASA decides that three's a crowd on space station, *News in brief*, **422**, 8
Engineers' concerns to be heeded as NASA aims for safer shuttle, *News in brief*, **423**, 794
Space station light show sparks aurora riddle, *News*, Reichhardt, T, **425**, 888
Casting light on mystery of auroral flashes, *Correspondence*, Freeman, L, **426**, 227
International Telecommunication Union, Astronomers leap to defence of extra seconds in time debate, *News*, Brumfiel, G, **423**, 671
International Tribunal for the Law of the Sea, Swamp row bogs down Singapore's bid to reclaim land, *News*, Cyranowski, D, **426**, 592
International Whaling Commission, Whaling group backs conservation, *News*, Westney, C, **423**, 789
Whale genetics study leaves conservationists all at sea, *News*, Clarke, T, Knight, J, **424**, 479
Internet *see* World Wide Web
interneurons, Neurobiology: Interneurons take charge, *News and views*, Moser, E I, **421**, 797
Brain-state- and cell-type-specific firing of hippocampal interneurons *in vivo*, *Letter to Nature*, Klausberger, T, Magill, P J, Márton, L F, Roberts, J D B, Cobden, P M, Buzsáki, G, Somogyi, P, **421**, 844
interplanetary dust, Interplanetary dust from the explosive dispersal of hydrated asteroids by impacts, *Letter to Nature*, Tomeoka, K, Kiriyama, K, Nakamura, K, Yamahana, Y, Sekine, T, **423**, 60
interstellar clouds, An enhanced cosmic-ray flux towards ζ Persei inferred from a laboratory study of the H_3^+–e^- recombination rate, *Letter to Nature*, McCall, B J, Huneycutt, A J, Saykally, R J, Geballe, T R, Djuric, N, Dunn, G H, Semaniak, J, Novotny, O, Al-Khalili, A, Ehlerding, A, Hellberg, F, Kalhori, S, Neau, A, Thomas, R, Österdahl, F, Larsson, M, **422**, 500
interstellar dust, Type II supernovae as a significant source of interstellar dust, *Letter to Nature*, Dunne, L, Eales, S, Ivison, R, Morgan, H, Edmunds, M, **424**, 285
intracellular probes, The tiny toolkit, *News feature*, Zandonella, C, **423**, 10
intracytoplasmic sperm injection, Reining in assisted reproduction, *Opinion*, **422**, 647
Seeds of doubt, *News feature*, Powell, K, **422**, 656
intraflagellar transport proteins, Hedgehog signalling in the mouse requires intraflagellar transport proteins, *Letter to Nature*, Huangfu, D, Liu, A, Rakeman, A S, Murcia, N S, Miswander, L, Anderson, K V, **426**, 83
introduced species, Introduced species and their missing parasites, *Letter to Nature*, Torchin, M E, Lafferty, K D, Dobson, A P, McKenzie, V J, Kuris, A M, **421**, 628
Invar behaviour, Metallurgy: Bend it, shape it, *News and views*, Ball, P, **422**, 829
invasive species, Parasites lost, *News and views*, Clay, K, **421**, 585
Release of invasive plants from fungal and viral pathogens, *Letter to Nature*, Mitchell, C E, Power, A G, **421**, 625
Ecology: Under attack, *News and views*, Whitfield, J, **424**, 1011
inventions, London's Leonardo: The Life and Work of Robert Hooke, Bennett, J, Cooper, M, Hunter, M, Jardine, L, *Book review by* Oldroyd, D R, **423**, 384
inverse freezing, An inverse transition of magnetic domain patterns in ultrathin films, *Letter to Nature*, Portmann, O, Vaterlaus, A, Pescla, D, **422**, 701
inverse melting, An inverse transition of magnetic domain patterns in ultrathin films, *Letter to Nature*, Portmann, O, Vaterlaus, A, Pescla, D, **422**, 701
inversion, Developmental biology: How to turn inside out, *News and views*, Schmitt, R, Sumper, M, **424**, 499
invertebrates, An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807
Soil invertebrate fauna enhances grassland succession and diversity, *Letter to Nature*, De Deyn, G B, Raaijmakers, C E, Zoomer, H R, Berg, M P, de Ruiter, P C, Verhoef, H A, Bezemer, T M, van der Putten, W H, **422**, 711
Innate defence: Evidence for memory in invertebrate immunity, *Brief communication*, Kurtz, J, Franz, K, **425**, 37
Io (moon of Jupiter)
Planetary science: Sodium at Io, *News and views*, Hunten, D M, **421**, 30
Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus, *Letter to Nature*, Lellouch, E, Paubert, G, Moses, J I, Schneider, N M, Strobel, D F, **421**, 45
iodine, Modulated structure of solid iodine during its molecular dissociation under high pressure, *Letter to Nature*, Kenichi, T, Kyoko, S, Hiroshi, F, Mitsuko, O, **423**, 971

ion channels, Coupling of agonist binding to channel gating in the $GABA_A$ receptor, *Letter to Nature*, Kash, T L, Jenkins, A, Kelley, J C, Trudell, J R, Harrison, N L, **421**, 272

Functional analysis of an archaebacterial voltage-dependent K^+ channel, *Letter to Nature*, Ruta, V, Jiang, Y, Lee, A, Chen, J, MacKinnon, R, **422**, 180

Glycine binding primes NMDA receptor internalization, *Letter to Nature*, Nong, Y, Huang, Y-Q, Ju, W, Kalia, L V, Ahmadian, G, Wang, Y T, Salter, M W, **422**, 302

The voltage dependence of NADPH oxidase reveals why phagocytes need proton channels, *Letter to Nature*, DeCoursey, T E, Morgan, D, Cherny, V V, **422**, 531

Ion channels: Opposite thermosensor in fruitfly and mouse, *Brief communication*, Viswanath, V, Story, G M, Peier, A M, Petrus, M J, Lee, V M, Hwang, S W, Patapoutian, A, Jegla, T, **423**, 822

α-Neurexins couple Ca^{2+} channels to synaptic vesicle exocytosis, *Article*, Missler, M, Zhang, W, Rohlmann, A, Kattenstroth, G, Hammer, R E, Gottmann, K, Sudhof, T C, **423**, 939

Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning, *Letter to Nature*, Nishiyama, M, Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-m, Hong, K, **423**, 990

Ion channels: Hearing aid, *News and views*, Dumont, R A, Gillespie, P G, **424**, 28

A TRPV family ion channel required for hearing in *Drosophila*, *Letter to Nature*, Kim, J, Chung, Y D, Park, D-y, Choi, S, Shin, D W, Soh, H, Lee, H W, Son, W, Yim, J, Park, C-S, Kernan, M J, Kim, C, **424**, 81

T-type calcium channel regulation by specific G-protein $\beta\gamma$ subunits, *Letter to Nature*, Wolfe, J T, Wang, H, Howard, J, Garrison, J C, Barrett, P Q, **424**, 209

A cytoplasmic region determines single-channel conductance in 5-HT_3 receptors, *Letter to Nature*, Kelley, S P, Dunlop, J I, Kirkness, E F, Lambert, J J, Peters, J A, **424**, 321

Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels, *Letter to Nature*, Watanabe, H, Vriens, J, Prenen, J, Droogmans, G, Voets, T, Nilius, B, **424**, 434

Cell biology: Channel taps magnesium, *News and views*, Pearson, H, **424**, 630

Structural basis for modulation and agonist specificity of HCN pacemaker channels, *Letter to Nature*, Zagotta, W N, Olivier, N B, Black, K D, Young, E C, Olson, R, Gouaux, E, **425**, 200

Activation of the TRPC1 cation channel by metabotrophic glutamate receptor mGluR1, *Letter to Nature*, Kim, S J, Kim, Y S, Yuan, J P, Petralia, R S, Worley, P F, Linden, D J, **426**, 285

See also voltage-gated ion channels

ion guns, Surface science: View from the edge, *News and views*, Castner, D G, **422**, 129

ion transporters, Human genetics: Lost anchors cost lives, *News and views*, Nattel, S, **421**, 587

ion trapping, Implementation of the Deutsch–Jozsa algorithm on an ion-trap quantum computer, *Letter to Nature*, Guide, S, Riebe, M, Lancaster, G P T, Becher, C, Eschner, J, Häffner, H, Schmidt-Kaler, F, Chuang, I L, Blatt, R, **421**, 48

ionosphere, Gigantic jets between a thundercloud and the ionosphere, *Letter to Nature*, Su, H T, Hsu, R R, Chen, A B, Wang, Y C, Hsiao, W S, Lai, W C, Lee, L C, Sato, M, Fukunishi, H, **423**, 974

Iran, String theorists bypass NSF en route to Iran seminar, *News*, Brumfiel, G, **424**, 3

Iraq, Iraqis draw up blueprint for revitalized science academy, *News*, Giles, J, **426**, 484

Iraq, Ministry of Science and Technology, Ministers appointed to engineer revival in Iraqi research, *News*, Brumfiel, G, **425**, 111

Iraq War, Nobel winners rally against unilateral attack on Iraq, *News in brief*, **421**, 567

When the fighting is over..., *Opinion*, **422**, 359

Analysts seek proof of military precision, *News*, Brumfiel, G, **422**, 362

Inspectors face uphill struggle in search for banned weapons in Iraq, *News*, McDowell, N, **422**, 362

Critics slam US over plans to use riot-control chemicals in the Gulf, *News*, Knight, J, **422**, 363

Aid workers fear impending disaster in Basra, *News*, Schiermeier, Q, Kramer, T, **422**, 459

Allies will expose Iraq's weapons, says Blix, *News*, Butler, D, **422**, 550

Baghdad looters rob museum of priceless ancient treasures, *News in brief*, **422**, 654

Historians pool resources to halt trade in Iraq's stolen treasures, *News*, Hoag, H, **422**, 789

US debates future of Iraqi scientists, *News*, Check, E, **422**, 789

Iraqi science faces lonely road to recovery, *News*, Butler, D, **423**, 4

Oil and war: we had the warning 30 years ago, *Correspondence*, Jennings, M D, **423**, 15

Don't mention the war, *Opinion*, **423**, 207

Iraqi looters spark alert over radiation risks, *News*, Brumfiel, G, **423**, 370

Lack of trust hampers hunt for weapons, *News*, Butler, D, **423**, 371

Recovering from cultural devastation, *Opinion*, **423**, 465

Seed bank raises hope of Iraqi crop comeback, *News*, Clarke, T, **424**, 242

Taking it on trust, *Science in culture*, Kemp, M, **424**, 618

Ministers appointed to engineer revival in Iraqi research, *News*, Brumfiel, G, **425**, 111

State department woos weapons researchers in bid to rebuild Iraq, *News*, Brumfiel, G, **426**, 371

In the shadow of fear, *News feature*, Brumfiel, G, Knight, J, **426**, 748

Ireland, Irish scientists smiling at research cash boost, *News in brief*, **426**, 376

Iressa, Biologists take tentative steps towards bespoke cancer drugs, *News*, Cyranoski, D, **423**, 209

Irminger Sea, Deep convection in the Irminger Sea forced by the Greenland tip jet, *Article*, Pickart, R S, Spall, M A, Ribergaard, M H, Moore, G W K, Milliff, R F, **424**, 152

iron, The oresmen, *News feature*, Schiermeier, Q, **421**, 109

GreenSea's interest in fertilizing sea with iron, *Correspondence*, Rice, M L, **421**, 786

Iron-silica interaction at extreme conditions and the electrically conducting layer at the base of Earth's mantle, *Letter to Nature*, Dubrovinsky, L, Dubrovinskaia, N, Langenhorst, F, Dobson, D, Rubie, D, Gessmann, C, Abrikosov, I A, Johansson, B, Baykov, V I, Vitos, L, Le Bihan, T, Crichton, W A, Dmitriev, V, Weber, H-P, **422**, 58

Possible thermal and chemical stabilization of body-centred-cubic iron in the Earth's core, *Letter to Nature*, Vocadlo, L, Alfè, D, Gillan, M J, Wood, I G, Brodholt, J P, Price, G D, **424**, 536

Stability of the body-centred-cubic phase of iron in the Earth's inner core, *Letter to Nature*, Belonoshko, A B, Ahuja, R, Johansson, B, **424**, 1032

Atmospheric chemistry: Iron injection, *News and views*, Ball, P, **426**, 242

irrigation, How to slake a planet's thirst, *Opinion*, **422**, 242

The world's forgotten crisis, *News feature*, Aldhous, P, **422**, 251

Islam, Time to unite Islam and science, *Opinion*, **422**, 99

Academics wrestle with issue of Islam's flagging science base, *News*, Butler, D, **422**, 101

Building bridges through cooperation in science, *Correspondence*, Hassan, M H A, **422**, 559

It's time for the US and Muslims to work together, *Correspondence*, Dirie, A M, **425**, 237

island ecosystems, Neutral theory and relative species abundance in ecology, *Letter to Nature*, Volkov, I, Banavar, J R, Hubbell, S P, Martian, A, **424**, 1035

Ocean currents mediate evolution in islands lizards, *Letter to Nature*, Calsbeek, R, Smith, T B, **426**, 552

isolation, Mammalian evolution: Isolationist tendencies, *News and views*, Jaeger, J-J, **426**, 509

Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549

isoprene, Increased CO_2 uncouples growth from isoprene emission in an agriforest ecosystem, *Letter to Nature*, Rosenstiel, T N, Potosnak, M J, Griffin, K L, Fall, R, Monson, R K, **421**, 256

Israel, Paris university blasted over Israel motion, *News*, Butler, D, **421**, 200

Windfall spurs rare Israeli-Palestinian research effort, *News*, Adam, D, **421**, 777

Oxford professor accused of discrimination over e-mail, *News*, Watzman, H, **424**, 7

Oxford don penalized for outburst at Israeli, *News in brief*, **424**, 120

Across the great divide, *News feature*, Giles, J, **425**, 444

Middle East: a picture is worth a thousand words, *Correspondence*, Bigman, J, **425**, 899

Middle East: trying to break down the barriers, *Correspondence*, Ali, B R, **425**, 899

Oxford don suspended for political gate, *News in brief*, **426**, 8

Geologists call for desalination of Gaza Strip's water, *News*, Mason, B, **426**, 110

Middle East: nothing to fear except terrorism, *Correspondence*, Cohen, J S, **426**, 227

Israel, archaeology, Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic, *Letter to Nature*, Barkai, R, Gopher, A, Lauritzen, S E, Frumkin, A, **423**, 977

Israel, stem-cell research, German researchers set to receive Israeli stem-cell shipment, *News*, Watzman, H, **421**, 199

Italy, Italian science minister loses out over research reform, *News in brief*, **422**, 106

Italy, Accademia Nazionale dei Lincei, Time for an Italian renaissance?, *News feature*, Abbott, A, **422**, 467

Italy, CNR, Italians riled by science reforms, *News*, Abbott, A, **421**, 465

Italian research chief jumps ship as reorganization looms, *News in brief*, **423**, 374

Italy, Gran Sasso National Laboratory, Neutrino lab back on track after toxic leak, *News in brief*, **423**, 910

Italy, human embryo research, Italy takes hard line on embryo research, *News in brief*, **426**, 746

Italy, Italian Institute of Technology, Italy's proposal for technology institute riles researchers, *News*, Abbott, A, **426**, 111

Italy, Italian Space Agency, Mind your heads!, *News in brief*, **422**, 462

Italian research chief jumps ship as reorganization looms, *News in brief*, **423**, 374

Italy, museums, Pixels and piety, *Science in culture*, Kemp, M, **425**, 128

Italy, National Institute of Astrophysics, Italian research chief jumps ship as reorganization looms, *News in brief*, **423**, 374

Italy, nuclear physics, Pollution fears put work at neutrino laboratory on hold, *News*, Nosengo, N, **423**, 675

Italy, space exploration, Mind your heads!, *News in brief*, **422**, 462

ITER, China set to join international fusion experiment, *News in brief*, **421**, 306

Fusion project back on track as US returns to the fold, *News*, Brumfiel, G, **421**, 563

Don't mention the war, *Opinion*, **423**, 207

US support for Spain triggers unease over fusion project, *News*, Brumfiel, G, Butler, D, **423**, 211

Fusion cash shortfall leaves JET grounded, *News*, Giles, J, **424**, 4

Spain in the frame for Europe's bid to host fusion reactor, *News in brief*, **424**, 606

Europe insists fusion-project race remains wide open, *News*, Butler, D, **424**, 867

Europe's fusion-reactor plans depend on JET, *Correspondence*, Buttery, R, **424**, 995

JET at risk if Europe cannot afford to pay for ITER, *Correspondence*, Bradshaw, A M, **425**, 661

Canada prepares to pull the plug on fusion project, *News*, Brumfiel, G, **425**, 887

ITER reactor, France and Japan lock horns in battle to host research reactor, *News*, Butler, D, **426**, 483

Ivanov, Vladislav, Russian claims first in magnetic imaging, *News*, MacWilliams, B, **426**, 375

ivory, Palaeolithic ivory sculptures from southwestern Germany and the origins of figurative art, *Letter to Nature*, Conard, N J, **426**, 830

Ivory Coast, Civil war leaves Ivory Coast research in tatters, *News*, Degen, M, **421**, 680

Jacobs, Irwin, Ex-professor's gift boosts Californian University's funds, *News in brief*, **422**, 366

Jaffe, Arthur, Resignations rock mathematics institute, *News*, Brumfiel, G, **421**, 303

James Webb Space Telescope, Astronomers urge NASA not to cut corners on Hubble successor, *News*, Reichhardt, T, **422**, 3

Space: telescopes reveal the way forward, *Correspondence*, Angel, R, **422**, 373

Cost-cutting reflected in shrinking mirror, *News in brief*, **423**, 578

Hubble versus the future, *Opinion*, **424**, 599

Janeway, Charles A., Obituary: Charles A. Janeway Jr (1943–2003), *News and views*, Paul, W E, Germain, R N, **423**, 237

Janvier, Philippe, Skeleton keys — Philippe Janvier, *Lifelines*, **424**, 493

Japan, Japanese lab turns the page on cDNA delivery, *News in brief*, **422**, 794

A career in sport? I'd rather be on the bench, *News in brief*, **423**, 374

Japan joins Europe's bid to get Bepi Colombo to Mercury, *News in brief*, **424**, 8

Routine tests reveal unknown strains of BSE prions, *News*, Willerroider, M, **425**, 648

France and Japan lock horns in battle to host research reactor, *News*, Butler, D, **426**, 483

Japan Aerospace Exploration Agency, Satellite loss throws Japan's space programme into disarray, *News*, Cyranoski, D, **426**, 3

Japan, animal welfare, UK shock tactics repel animal-rights activists in Japan, *News*, Cyranoski, D, **424**, 119

Japan, Antarctic exploration, Antarctic research frozen out of Japan's budget plans, *News*, Kandachi, K, **426**, 108

Japan, biotechnology, Concern about Japan's unclear biotech regulations, *Correspondence*, Watanabe, K N, **421**, 689

Japan, Council for Science and Technology Policy, Hints of age bias spur calls for grant reforms, *News*, Cyranoski, D, Kandachi, K, **421**, 680

Japan, Earth Simulator, Supercomputer panel seeks winning formula, *News in brief*, **424**, 868

Japan, Electron-Positron Linear Collider, Japan matches price of German collider, *News in brief*, **421**, 778

Japan, espionage, Biologist gets minimum sentence in 'espionage' case, *News*, Cyranoski, D, **423**, 575

Japan, intellectual property, Japanese push for patents 'sidelines basic research', *News in brief*, **424**, 244

Japan Medical Association, Dispute over data privacy halts cancer study, *News*, Cyranoski, D, **424**, 359

Japan, Ministry of Education, Culture, Sports, Science and Technology, Partners dig deep for ocean-drilling project, *News*, Brumfiel, G, **422**, 651

Japan, Muses C mission, Asteroid probe to test technologies, *News*, Cyranoski, D, **423**, 212

Japan, neutrino research, Nobel winner helps particle project get back on beam, *News in brief*, **426**, 746

Japan, Nozomi Mars probe, Astronomers try to save Mars probe, *News*, Cyranoski, D, **424**, 6

Japan sees red-planet mission end in failure, *News in brief*, **426**, 747

Japan, research funding, Japan aims to let industry compete for grant money, *News*, Kandachi, K, **422**, 550

Japanese system buries the individual researcher, *Correspondence*, Dan, I, **423**, 221

Biology favoured in Japanese funding plan, *News in brief*, **425**, 9

Japan, scientific misconduct, Japan's fraudsters face years without grants, *News in brief*, **425**, 336

Japan, space exploration, Satellite loss throws Japan's space programme into disarray, *News*, Cyranoski, D, **426**, 3

Japan, stem-cell research, Japanese team makes stem cells, *News*, Cyranoski, D, **423**, 577

Japan, submarines, Ocean experts hit wave of bad luck as sub goes under, *News in brief*, **424**, 120

Japan, universities, Tokyo deans plans flexible future for students, *News*, Kandachi, K, **421**, 304

Japanese system buries the individual researcher, *Correspondence*, Dan, I, **423**, 221

- **Japanese quail**, Light-induced hormone conversion of T_4 to T_3 regulates photoperiodic response of gonads in birds, *Letter to Nature*, Yoshimura, T, Yasuo, S, Watanabe, M, Iigo, M, Yamamura, T, Hirunagi, K, Ebihara, S, **426**, 178
- **Japanese Zen gardens**, correction: Visual structure of a Japanese Zen garden, *Brief communication*, Van Tonder, G J, Lyons, M J, Ejima, Y, **421**, 230
- **Jelly belly protein**, Jelly belly protein activates the receptor tyrosine kinase Alk to specify visceral muscle pioneers, *Letter to Nature*, Lee, H-H, Norris, A, Weiss, J B, Frasch, M, **425**, 507
  - Jeb signals through the Alk receptor tyrosine kinase to drive visceral muscle fusion, *Letter to Nature*, Englund, C, Loren, C E, Grabbe, C, Varshney, G K, Deleuil, F, Hallberg, B, Palmer, R H, **425**, 512
- **jellyfish**, Giant jellyfish leaves researchers red-faced, *News in brief*, **423**, 214
  - Zoology: Light touch on the rudder, *News and views*, Lincoln, T, **425**, 360
  - Close encounters of the jelly kind, *News feature*, Dennis, C, **426**, 12
  - Aircraft give a new view of jellyfish behaviour, *Correspondence*, Hays, G C, Houghton, J D R, **426**, 383
- **Jerne, Niels**, Science as Autobiography: The Troubled Life of Niels Jerne, Soderqvist, T, *Book review by* Nossal, G J V, **424**, 253
- **jets**, Fluid dynamics: Jet-bending explained, *News and views*, Ball, P, **425**, 678
- **JNK**, JNK phosphorylates paxillin and regulates cell migration, *Letter to Nature*, Huang, C, Rajfur, Z, Borchers, C, Schaller, M D, Jacobson, K, **424**, 219
- ***JOIDES Resolution***, Ship row flags up funding of war in Africa, *News*, Dalton, R, **426**, 485
  - Digging in, *News feature*, Cyranoski, D, **426**, 492
- **Joint European Torus (JET) reactor**, Fusion cash shortfall leaves JET grounded, *News*, Giles, J, **424**, 4
  - Europe's fusion-reactor plans depend on JET, *Correspondence*, Buttery, R, **424**, 995
  - JET at risk if Europe cannot afford to pay for ITER, *Correspondence*, Bradshaw, A M, **425**, 661
- **Joint Oceanographic Institutions**, Ship row flags up funding of war in Africa, *News*, Dalton, R, **426**, 485
- **Josephson junctions**, Quantum oscillations in two coupled charge qubits, *Letter to Nature*, Pashkin, Yu A, Yamamoto, T, Astaflev, O, Nakamura, Y, Averin, D V, Tsai, J S, **421**, 823
  - Condensed-matter physics: Vortices and hearts, *News and views*, Clarke, J, **425**, 133
- ***Journal of Clinical Investigation***, Open access: the JCI has already shown its works, *Correspondence*, Varki, A, **426**, 383
- **jumping**, Froghopper insects leap to new heights, *Brief communication*, Burrows, M, **424**, 509
- **Jupiter**, Outer planets: Origins of atmospheric zonal winds, *Brief communication*, Yano, J-I, Talagrand, O, Drossart, P, **421**, 36
  - Energetic neutral atoms from a trans-Europa gas torus at Jupiter, *Letter to Nature*, Mauk, B H, Mitchell, D G, Krimigis, S M, Roelof, E C, Paranicas, C P, **421**, 920
  - High-energy astronomy: Flashes from planet smashes, *News and views*, Ball, P, **424**, 1011
- **Jupiter Icy Moons Orbiter**, NASA pins hopes on nuclear-powered orbiter, *News*, Reichhardt, T, **421**, 881
  - NASA turns sub firm in nuclear power play, *News in brief*, **425**, 892
- **Jupiter, moons**, Planetary science: Jupiter's moonopoly, *News and views*, Hamilton, D P, **423**, 235
  - An abundant population of small irregular satellites around Jupiter, *Letter to Nature*, Sheppard, S S, Jewitt, D C, **423**, 261
  - Chaos-assisted capture of irregular moons, *Letter to Nature*, Astakhov, S A, Burbanks, A D, Wiggins, S, Farrelly, D, **423**, 264
- **Jurassic period**, Earliest known crown-group salamanders, *Letter to Nature*, Gao, K-Q, Shubin, N H, **422**, 424

- ***Kaiko* submersible**, Ocean experts hit wave of bad luck as sub goes under, *News in brief*, **424**, 120
- **Kamioka Liquid scintillator Anti-Neutrino Detector (KamLAND)**, Now you see them, now you don't, *News and views*, Wark, D, **421**, 485
- **kangaroo**, Opossum hops over kangaroo to top of genome list, *News*, Dennis, C, **425**, 753
- **Karin asteroid family**, Disruption of fragmented parent bodies as the origin of asteroid families, *Letter to Nature*, Michel, P, Benz, W, Richardson, D C, **421**, 608
- **Katz, Stephen**, Secrecy damages the NIH, *Opinion*, **426**, 739
- **Keck Foundation**, National Academics launch grants for interdisciplinary work, *News*, Check, E, **422**, 791
- **KECK II telescope**, Astronomy: Faking it, *News and views*, Wright, A, **425**, 677
- **Kelly, David**, In the shadow of fear, *News feature*, Brumfiel, G, Knight, J, **426**, 748
- **Kennewick Man**, Court rules in favour of research on Kennewick Man, *News in brief*, **421**, 202
  - Tracking the first Americans, *News and views*, Dillehay, T D, **425**, 23
- **Kepler's conjecture**, Kepler's Conjecture: How Some of the Greatest Minds in History Helped Solve One of the Oldest Math Problems in the World, Szpiro, G G, *Book review by* Sloane, N, **425**, 126
- **kidney stones**, Surface chemistry: Riddle of the stones, *News and views*, Ball, P, **422**, 275
- **KIF1A**, Processivity of the single-headed kinesin KIF1A through biased binding to tubulin, *Letter to Nature*, Okada, Y, Higuchi, H, Hirokawa, N, **424**, 574
- **Kilauea volcano**, Interaction between Kilauea and Mauna Loa, *Brief communication*, Miklius, A, Cervelli, P, **421**, 229
- **kinematics**, Kinematics: Wide shear zones in granular bulk flow, *Brief communication*, Fenistein, D, van Hecke, M, **425**, 256
- **kinesin**, Molecular motors, *Insight review article*, Schliwa, M, Woehlke, G, **422**, 759
  - Developmental biology: How to turn inside out, *News and views*, Schmitt, R, Sumper, M, **424**, 499
  - Neurobiology: Motor proteins branch out, *News and views*, Tromans, A, **424**, 503
  - Processivity of the single-headed kinesin KIF1A through biased binding to tubulin, *Letter to Nature*, Okada, Y, Higuchi, H, Hirokawa, N, **424**, 574
  - Biophysics: Take the intracellular train, *News and views*, Helmer, M, **425**, 140
- **kinetics**, Kinetics: Gaussian statistics in granular gases, *Brief communication*, Baxter, G W, Olafsen, J S, **425**, 680
- **Kinosita, Kazuhiko**, A comic book hero — Kazuhiko Kinosita Jr, *Lifelines*, **422**, 266
- **Kirchner, Néstor**, All change as Argentina's science leader keeps his job, *News*, Marzuola, C, **423**, 672
- **Kiribati**, Islands make waves for Chinese space base, *News in brief*, **426**, 220
- **Kirschner, Marc**, Harvard heralds fresh take on systems biology, *News*, Check, E, **425**, 439
- **kiss-and-run**, Different domains of synaptotagmin control the choice between kiss-and-run and full fusion, *Letter to Nature*, Wang, C-T, Lu, J-C, Bai, J, Chang, P Y, Martin, T F J, Chapman, E R, Jackson, M B, **424**, 943
- **kissing**, Adult persistence of head-turning asymmetry, *Brief communication*, Güntürkün, O, **421**, 711
  - Addendum: Adult persistence of head-turning asymmetry, *Brief communication*, Gunturkun, O, **422**, 834
- **kissing number**, Mathematics: The 24-dimensional greengrocer, *News and views*, Stewart, I, **424**, 895
- **Kleiber, Michal**, Too quiet on the Eastern front, *Editorial*, **421**, 459
  - Poles apart, or together with Europe?, *News feature*, Schiermeier, Q, **421**, 471
  - Eastern Europe nurtures talent for the West, *Correspondence*, Gregan, J, **421**, 786
- **Knapp, Sandy**, Outdoor pursuits — Sandy Knapp, *Lifelines*, **423**, 590
- **knots**, Knots: Mathematics with a Twist, Sossinsky, A, Weiss, G, *Book review by* Stasiak, A, **421**, 479
- **knowledge**, Information Feudalism: Who Owns the Knowledge Economy?, Drahos, P, Braithwaite, J, *Book review by* Thomas, S, **421**, 577
- **Koch's postulates**, Aetiology: Koch's postulates fulfilled for SARS virus, *Brief communication*, Fouchier, R A M, Kuiken, T, Schutten, M, van Amerongen, G, van Doornum, G J J, van den Hoogen, B G, Peiris, M, Lim, W, Stohr, K, Osterhaus, A D M E, **423**, 240
- **Koldewey station**, Summer in Svalbard, *News feature*, Schiermeier, Q, **424**, 992
- **Kolmogorov theory**, Measuring intense rotation and dissipation in turbulent flows, *Letter to Nature*, Zeff, B W, Lanterman, D D, McAllister, R, Roy, R, Kostelich, E J, Lathrop, D P, **421**, 146
- **komatiites**, Archaean ultra-depleted komatiites formed by hydrous melting of cratonic mantle, *Letter to Nature*, Wilson, A H, Shirey, S B, Carlson, R W, **423**, 858
- **Kondo effect**, Single-electron transistor of a single organic molecule with access to several redox states, *Letter to Nature*, Kubatkin, S, Danilov, A, Hjort, M, Cornil, J, Brédas, J-L, Stuhr-Hansen, N, Hedegard, P, Bjornholm, T, **425**, 698
- **Korea**, Korea strategy aims to give good scientists a job for life, *News in brief*, **426**, 596
  - Koreans rustle up madness-resistant cows, *News*, Cyranoski, D, **426**, 743
- **Kow Swamp**, Human evolution: Robust ideas, *News and views*, Gee, H, **425**, 914
- **Krishtal, Oleg**, Conscious efforts — Oleg Krishtal, *Lifelines*, **424**, 728
- **krypton**, Chemistry: Krypton goes organic, *News and views*, Ball, P, **423**, 820
- **Kugler, Alexander**, Report exposes errors in cancer 'breakthrough', *News in brief*, **421**, 566
- **Kuiper belt objects**, Planetary science: Kuiper-belt interlopers, *News and views*, Morbidelli, A, Levison, H F, **422**, 30
  - The evolution of comets in the Ooort cloud and Kuiper belt, *Progress article*, Stern, S A, **424**, 639
  - Planetary science: Conveyed to the Kuiper belt, *News and views*, Gomes, R, **426**, 393
  - The formation of the Kuiper belt by the outward transport of bodies during Neptune's migration, *Letter to Nature*, Levison, H F, Morbidelli, A, **426**, 419
- **Kurgan theory of language**, Language-tree divergence times support the Anatolian theory of Indo-European origin, *Letter to Nature*, Gray, R D, Atkinson, Q D, **426**, 435
- **Kuril trench**, Unusually large earthquakes inferred from tsunami deposits along the Kuril trench, *Letter to Nature*, Nanayama, F, Satake, K, Furukawa, R, Shimokawa, K, Atwater, B F, Shigeno, K, Yamaki, S, **424**, 660
- **Kusama, Yayoi**, Nets and neuroses, *Science in culture*, Kemp, M, **422**, 666
- **KvAP protein**, Life's transistors, *News and views*, Sigworth, F J, **423**, 21
  - X-ray structure of a voltage-dependent K^+ channel, *Article*, Jiang, Y, Lee, A, Chen, J, Ruta, V, Cadene, M, Chait, B T, MacKinnon, R, **423**, 33
- **Kyoto Protocol**, *See* United Nations Framework Convention on Climate Change, Kyoto agreement

- **laboratory architecture**, Do you want to work here?, *News feature*, Bonetta, L, **424**, 718
- **Labrador Sea Water**, Oceanography: Stirring time in the Atlantic, *News and views*, Dickson, B, **424**, 141
  - Deep convection in the Irminger Sea forced by the Greenland tip jet, *Article*, Pickart, R S, Spall, M A, Ribergaard, M H, Moore, G W K, Milliff, R F, **424**, 152
- ***Labroides dimidiatus***, Marine ecology: Fish that go to the cleaners, *News and views*, Whitfield, J, **421**, 493
- **LAF1 protein**, LAF1 ubiquitination by COP1 controls photomorphogenesis and is stimulated by SPA1, *Letter to Nature*, Seo, H S, Yang, J-Y, Ishikawa, M, Bolle, C, Ballesteros, M L, Chua, N-H, **423**, 995
- **lake ecosystems**, Global change: The heat on Lake Tanganyika, *News and views*, Verschuren, D, **424**, 731
  - Climate changes decreases aquatic ecosystem productivity of Lake Tanganyika, Africa, *Letter to Nature*, O'Reilly, C M, Alin, S R, Plisnier, P-D, Cohen, A S, McKee, B A, **424**, 766
- **Lake Mungo site**, New ages for human occupation and climatic change at Lake Mungo, Australia, *Letter to Nature*, Bowler, J M, Johnston, H, Olley, J M, Prescott, J R, Roberts, R G, Shawcross, W, Spooner, N A, **421**, 837
- **Lake Tanganyika**, Global change: The heat on Lake Tanganyika, *News and views*, Verschuren, D, **424**, 731
  - Climate changes decreases aquatic ecosystem productivity of Lake Tanganyika, Africa, *Letter to Nature*, O'Reilly, C M, Alin, S R, Plisnier, P-D, Cohen, A S, McKee, B A, **424**, 766
- **lakes**, Delivery of pollutants by spawning salmon, *Brief communication*, Krummel, E M, Macdonald, R W, Kimpe, L E, Gregory-Eaves, I, Demers, M J, Smol, J P, Finney, B, Blais, J M, **425**, 255
- **lamin A**, Recurrent *de novo* point mutations in lamin A cause Hutchinson–Gilford progeria syndrome, *Letter to Nature*, Eriksson, M, Brown, W T, Gordon, L B, Glynn, M W, Singer, J, Scott, L, Erdos, M R, Robbins, C M, Moses, T Y, Berglund, P, Dutra, A, Pak, E, Durkin, S, Csoka, A B, Boehnke, M, Glover, T W, Collins, F S, **423**, 293
  - A progeroid syndrome in mice is caused by defects in A-type lamins, *Letter to Nature*, Mounkes, L C, Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L, **423**, 298
- **laminin**, Complex between nidogen and laminin fragments reveals a paradigmatic β-propeller interface, *Letter to Nature*, Takagi, J, Yang, Y, Liu, J-h, Wang, J-h, Springer, T A, **424**, 969
- **land reclamation**, South Korea accused of leaving birds out to die in Wetland project, *News in brief*, **424**, 988
  - Swamp row bogs down Singapore's bid to reclaim land, *News*, Cyranowski, D, **426**, 592
- **land use**, Impact of urbanization and land use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **423**, 528
  - Corrigendum: Impact of urbanization and land-use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **425**, 102
  - Crop freezes and land-use change in Florida, *Brief communication*, Marshall, C H, Pielke Sr, R A, Steyaert, L T, **426**, 29
- **Landau levels**, Quantum physics: Wheels within wheels, *News and views*, Smet, J H, **422**, 391
- **Lander, Eric**, Whitehead geneticist quits for broad remit at medical institute, *News in brief*, **423**, 910
- **Landers fault**, Damage to the shallow Landers fault from the nearby Hector Mine earthquake, *Letter to Nature*, Vidale, J E, Li, Y-G, **421**, 524
- **landfill**, Environmental science: Lead, leaching and landfill, *News and views*, Ball, P, **425**, 364
- **Landis, Story**, US neuroscience institute fills directorship at last, *News in brief*, **424**, 716
- **Landsat 7**, Photos stop as Landsat 7 defies engineers, *News*, Reichhardt, T, **423**, 907
- **Landua, Rolf**, Hunting antimatter — Rolf Landua, *Lifelines*, **424**, 1000
- **Langmuir–Blodgett technique**, Wires on water, *News and views*, Yang, P, **425**, 243
- **language**, Parallel extinction risk and global distribution of languages and species, *Letter to Nature*, Sutherland, W J, **423**, 276
  - Linguistics: Modelling the dynamics of language death, *Brief communication*, Abrams, D M, Strogatz, S H, **424**, 900
  - Consolidation during sleep of perceptual learning of spoken language, *Letter to Nature*, Fenn, K M, Nusbaum, H C, Margoliash, D, **425**, 614
  - Constructing a Language: A Usage-Based Theory of Language Acquisition, *Book review*, Tomasello, M, Clark, E V, **425**, 768
  - Trees of life and language, *News and views*, Searls, D B, **426**, 391
  - Language-tree divergence times support the Anatolian theory of Indo-European origin, *Letter to Nature*, Gray, R D, Atkinson, Q D, **426**, 435
  - To put it simply, *Concepts*, Piattelli-Palmarini, M, **426**, 607
- **Lapedo child**, Portrait of the Artist as a Child: The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context, Zilhao, J, Trinkaus, E, *Book review by* Bahn, P, **424**, 490
- **Lapland**, The Man Who Flattened the Earth: Maupertuis and the Sciences in the Enlightenment, Terrall, M, *Book review by* Shapin, S, **423**, 482
- **Large Hadron Collider**, Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108
  - Towards a clean collider, *Opinion*, **426**, 105
- **Large Plasma Device**, Plasma physics: Cosmic waves in the lab, *News and views*, Boswell, R, **425**, 353
- **Larsen Ice Shelf**, Glaciology: Thin ice, *News and views*, Ball, P, **426**, 28
- **larvae**, Developmental biology: A larval revelation, *News and views*, Lacalli, T, **421**, 120
  - Larval stages of a living sea lily (stalked crinoid echinoderm), *Letter to Nature*, Nakano, H, Hibino, T, Oji, T, Hara, Y, Amemiya, S, **421**, 158

Laser Interferometer Gravitational-Wave Observatory, Gravitational waves remain out of reach, *News in brief*, **421**, 778
lasers, Single-nanowire electrically driven lasers, *Letter to Nature*, Duan, X, Huang, Y, Agarwal, R, Lieber, C M, **421**, 241
Attophysics: Ultrafast control, *News and views*, Bucksbaum, P H, **421**, 593
Attosecond control of electronic processes by intense light fields, *Letter to Nature*, Baltuška, A, Udem, Th, Uiberacker, M, Hentschel, M, Goulielmakis, E, Gohle, Ch, Holzwarth, R, Yakovlev, V S, Scrinzi, A, Hänsch, T W, Krausz, F, **421**, 611
Applied physics: Son et lumière, *News and views*, Worlock, J M, Roukes, M L, **421**, 802
Laser quest foiled as officials sent packing, *News in brief*, **422**, 106
Erratum: Attosecond control of electronic processes by intense light fields, *Letter to Nature*, Baltuška, A, Udem, Th., Uiberacker, M, Hentschel, M, Goulielmakis, E, Ghole, Ch., Holzwarth, R, Yakoviev, V S, Scrinzi, A, Hänsch, T W, Krausz, F, **422**, 189
Leading edge lasers, *Correspondence*, Chattopadhyay, S, **422**, 469
Nanotechnology: Dendritic lasers, *News and views*, Ball, P, **422**, 577
Laser to shed light on delicate tissue, *News in brief*, **423**, 676
Researchers feel the power as electron laser lights up, *News in brief*, **423**, 911
Laser breakdown takes satellite's eye off the ice, *News in brief*, **424**, 244
Tattoo effects may be more than skin deep, *News in brief*, **424**, 362
Optics: Laser light sees through clouds, *News and views*, Ball, P, **424**, 385
ultrafast, Recent developments in compact ultrafast lasers, *Insight review article*, Keller, U, **424**, 831
Microphotonics: Tiny laser notches up success, *News and views*, Ball, P, **425**, 143
Quantum optics: Single atom lases orderly light, *News and views*, Carmichael, H, Orozco, L A, **425**, 246
Experimental realization of a one-atom laser in the regime of strong coupling, *Letter to Nature*, McKeever, J, Boca, A, Boozer, A D, Buck, J R, Kimble, H J, **425**, 268
Lasker Awards, Prizes aplenty honour genetics and astronomy, *News in brief*, **425**, 230
Last Glacial Maximum, Global change: Ups and downs in the Red Sea, *News and views*, Sirocko, F, **423**, 813
Late Cretaceous era, Cannibalism in the Madagascan dinosaur *Majungatholus atopus*, *Letter to Nature*, Rogers, R R, Krause, D W, Curry Rogers, K, **422**, 515
latency-associated peptide, Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
lateral geniculate nucleus, Parallel colour-opponent pathways to primary visual cortex, *Letter to Nature*, Chatterjee, S, Callaway, E M, **426**, 668
lateral inhibition, Delta-promoted filopodia mediate long-range lateral inhibition in *Drosophila*, *Letter to Nature*, de Joussineau, C, Soule, J, Martin, M, Anguille, C, Montcourrier, P, Alexandre, D, **426**, 555
LaTex, Open-source answer to bibliography problem, *Correspondence*, Wendl, M C, Dooling, D J, **424**, 995
latitude effect, Space travel: Dual origins of light flashes seen in space, *Brief communication*, Casolino, M, Bidoli, V, Moreelli, A, Narici, L, De Pascale, M P, Picozza, P, Reali, E, Sparvoli, R, Mazzenga, G, Ricci, M, Spillantini, P, Boezio, M, Bonvicini, V, Vacchi, A, Zampa, N, Castellini, G, Sannita, W G, Carlson, P, Galper, A, Korotkov, M, Popov, A, Vavilov, N, Avdeev, S, Fuglesang, C, **422**, 680
laughter, What do you get if you cross comedy with gene profiling?, *News in brief*, **421**, 103
Lauterbur, Paul, Magnetic pioneers net Nobel for putting medicine in the picture, *News*, Pearson, H, **425**, 547
lava, Interaction of sea water and lava during submarine eruptions at mid-ocean ridges, *Letter to Nature*, Perfit, M R, Cann, J R, Fornari, D J, Engels, J, Smith, D K, Ridley, W I, Edwards, M H, **426**, 62
Explosive volcanism may not be an inevitable consequence of magma fragmentation, *Letter to Nature*, Gonnermann, H M, Manga, M, **426**, 432
See also **volcanoes**
Le Maho, Yvon, How animals work — Yvon Le Maho, *Lifelines*, **425**, 129
lead, Archaeology: The dating game, *News and views*, Lincoln, T, **424**, 898
Environmental science: Lead, leaching and landfill, *News and views*, Ball, P, **425**, 364
leadership, Spontaneous emergence of leaders and followers in foraging pairs, *Letter to Nature*, Rands, S A, Cowlishaw, G, Pettifor, R A, Rowcliffe, J M, Johnstone, R A, **423**, 432
learned auditory behaviours, Neuronal populations and single cells representing learned auditory objects, *Letter to Nature*, Gentner, T Q, Margoliash, D, **424**, 669
learned behaviour, Intelligence of Apes and Other Rational Beings, Rumbaugh, D M, Washburn, D A, *Book review by* Whiten, A, **425**, 454
learning, Neuroscience: Of mice and mentality, *News and views*, Blinkhorn, S, **424**, 1004
Evolution and Learning: The Baldwin Effect Reconsidered, Weber, B H, Depew, D J, *Book review by* Laland, K N, **425**, 345
Consolidation during sleep of perceptual learning of spoken language, *Letter to Nature*, Fenn, K M, Nusbaum, H C, Margoliash, D, **425**, 614
Dissociable stages of human memory consolidation and reconsolidation, *Letter to Nature*, Walker, M P, Brakefield, T, Hobson, J A, Stickgold, R, **425**, 616
learning, paired-associate, Glutamate-receptor-mediated encoding and retrieval of paired-associate learning, *Letter to Nature*, Day, M, Langston, R, Morris, R G M, **424**, 205
learning, perceptual, Psychophysics: Is subliminal learning really passive?, *Brief communication*, Seitz, A R, Watanabe, T, **422**, 36
leaves, The expression domain of *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **424**, 438
Erratum: The expression domain *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **425**, 102
Control of leaf morphogenesis by microRNAs, *Article*, Palatnik, J F, Allen, E, Wu, X, Schommer, C, Schwab, R, Carrington, J C, Weigel, D, **425**, 257
Plant development: Leaves by number, *News and views*, Surridge, C, **426**, 237
Regulation of phyllotaxis by polar auxin, *Article*, Reinhardt, D, Pesce, E-R, Stieger, P, Mandel, T, Baltensperger, K, Bennett, M, Traas, J, Friml, J, Kuhlemeier, C, **426**, 255
See also **plants**
Lee, Jong Wook, TB medic wins global health post, *News*, Butler, D, **421**, 463
legal issues, Ousted university vet sues over dismissal, *News in brief*, **423**, 214
Biotechnology at the bar, *News feature*, Nosengo, N, **425**, 116
Defamation, online, *Opinion*, **426**, 1
Critical comments threaten to open libel floodgate for physics archive, *News*, Giles, J, **426**, 7
legal profession, Fiendishly clever?, *Correspondence*, Mârshall, R C, **423**, 918
Legionella pneumophila, Immunology: Hide and seek, *News and views*, Heemels, M-T, **424**, 31
Legocki, Andrzej, Polish science academy prepares for radical overhaul, *News*, Schiermeier, Q, **422**, 653
legumes, Plant biology: Mutual sanctions, *News and views*, Sprent, J, **422**, 672
Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis, *Letter to Nature*, Lodwig, E M, Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S, **422**, 722
Host sanctions and the legume–rhizobium mutualism, *Letter to Nature*, Kiers, E T, Rousseau, R A, West, S A, Denison, R F, **425**, 78
Plant biology: Locks, keys and symbioses, *News and views*, Parniske, M, Downie, J A, **425**, 569
Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases, *Article*, Radutoiu, S, Madsen, L H, Madsen, E B, Felle, H H, Umehara, Y, Gronlund, M, Sato, S, Nakamura, Y, Tabata, S, Sandal, N, Stougaard, J, **425**, 585
A receptor kinase gene of the LysM type is involved in legume perception of rhizobial signals, *Letter to Nature*, Madsen, E B, Madsen, L H, Radutolu, S, Olbryt, M, Rakwalska, M, Szczyglowski, K, Sato, S, Kaneko, T, Tabata, S, Sandal, N, Stougaard, J, **425**, 637
See also **plants**
Lehmann discontinuity, Global anisotropy and the thickness of continents, *Letter to Nature*, Gung, Y, Panning, M, Romanowicz, B, **422**, 707
Leibniz award, Stench of fraud in German odour lab as paper cries foul, *News in brief*, **422**, 794
Leishmania, Sweet revenge, *News feature*, Dennis, C, **423**, 580
lemurs, Palaeontology: Combing the primate record, *News and views*, Martin, R D, **422**, 388
Fossil evidence for an ancient divergence of lorises and galagos, *Letter to Nature*, Seiffert, E R, Simons, E L, Attia, Y, **422**, 421
lenses, Photonic crystals: Imaging by flat lens using negative refraction, *Brief communication*, Parimi, P V, Lu, W T, Vodo, P, Sridhar, S, **426**, 404
LEO computer, A Computer Called LEO: Lyons Teashops and the World's First Office Computer, Ferry, G, *Book review by* Ralston, A, **424**, 616
leopard, Developmental biology: Fish in pinstripe suits, *News and views*, Heemels, M-T, **424**, 143
lepidosaurs, Large Cretaceous sphenodontian from Patagonia provides insight into lepidosaur evolution in Gondwana, *Letter to Nature*, Apesteguia, S, Novas, F E, **425**, 609
leprospirosis, Unique physiological and pathogenic features of *Leptospira interrogans* revealed by whole-genome sequencing, *Letter to Nature*, Ren, S-X, Fu, G, Jiang, X-G, Zeng, R, Miao, Y-G, Xu, H, Zhang, Y-X, Zxiong, H, Lu, G, Lu, L-F, Jiang, H-Q, Jia, J, Tu, Y-F, Jiang, J-X, Gu, W-Y, Zhang, Y-Q, Cai, Z, Sheng, H-H, Yin, H-F, Zhang, Y, Zhu, G-F, Wan, M, Huang, H-L, Qian, Z, Wang, S-Y, Ma, W, Yao, Z-J, Shen, Y, Qiang, B-Q, Xia, Q-C, Guo, X-K, Danchin, A, Saint Girons, I, Somerville, R L, Wen, Y-M, Shi, M-H, Xhen, Z, Xu, J-G, Zhao, G-P, **422**, 888
leptin, STAT3 signalling is required for leptin regulation of energy balance but not reproduction, *Letter to Nature*, Bates, S H, Stearns, W H, Dundon, T A, Schubert, M, Tso, A W K, Wang, Y, Banks, A S, Lavery, H J, Haq, A K, Maratos-Flier, E, Neel, B G, Schwartz, M W, Myers Jr, M G, **421**, 856
Immunology: Fast and feel good?, *News and views*, Kuchroo, V K, Nicholson, L B, **422**, 27
The Hungry Gene: The Science of Fat and the Future of Thin, Shell, E R, *Book review by* Kopelman, P, **422**, 378
Leptospira interrogans, Unique physiological and pathogenic features of *Leptospira interrogans* revealed by whole-genome sequencing, *Letter to Nature*, Ren, S-X, Fu, G, Jiang, X-G, Zeng, R, Miao, Y-G, Xu, H, Zhang, Y-X, Zxiong, H, Lu, G, Lu, L-F, Jiang, H-Q, Jia, J, Tu, Y-F, Jiang, J-X, Gu, W-Y, Zhang, Y-Q, Cai, Z, Sheng, H-H, Yin, H-F, Zhang, Y, Zhu, G-F, Wan, M, Huang, H-L, Qian, Z, Wang, S-Y, Ma, W, Yao, Z-J, Shen, Y, Qiang, B-Q, Xia, Q-C, Guo, X-K, Danchin, A, Saint Girons, I, Somerville, R L, Wen, Y-M, Shi, M-H, Xhen, Z, Xu, J-G, Zhao, G-P, **422**, 888
leptospirosis, Unique physiological and pathogenic features of *Leptospira interrogans* revealed by whole-genome sequencing, *Letter to Nature*, Ren, S-X, Fu, G, Jiang, X-G, Zeng, R, Miao, Y-G, Xu, H, Zhang, Y-X, Zxiong, H, Lu, G, Lu, L-F, Jiang, H-Q, Jia, J, Tu, Y-F, Jiang, J-X, Gu, W-Y, Zhang, Y-Q, Cai, Z, Sheng, H-H, Yin, H-F, Zhang, Y, Zhu, G-F, Wan, M, Huang, H-L, Qian, Z, Wang, S-Y, Ma, W, Yao, Z-J, Shen, Y, Qiang, B-Q, Xia, Q-C, Guo, X-K, Danchin, A, Saint Girons, I, Somerville, R L, Wen, Y-M, Shi, M-H, Xhen, Z, Xu, J-G, Zhao, G-P, **422**, 888
Leuckart, Rudolf, Visual zoology, *Science in Culture*, Abbott, A, **421**, 580
leukaemia, Second cancer case halts gene-therapy trials, *News*, Check, E, **421**, 305
Haematopoietic stem cells retain long-term repopulating activity and multipotency in the absence of stem-cell leukaemia SCL/*tal-1* gene, *Letter to Nature*, Mikkola, H K A, Klintman, J, Yang, H, Hock, H, Schlaeger, T M, Fujiwara, Y, Orkin, S H, **421**, 547
Cancer: Escape from inhibition, *News and views*, Courtneidge, S A, **422**, 827
Bmi-1 determines the proliferative capacity of normal and leukaemic stem cells, *Article*, Lessard, J, Sauvageau, G, **423**, 255
Deficiency of the adaptor SLP-65 in pre-B-cell acute lymphoblastic leukaemia, *Letter to Nature*, Jumaa, H, Bossaller, L, Portugal, K, Storch, B, Lotz, M, Flemming, A, Schrappe, M, Postila, V, Riikonen, P, Pelkonen, J, Niemeyer, C M, Reth, M, **423**, 452
Medicine: Taking apart a cancer protein, *News and views*, Scaglioni, P P, Pandolfi, P P, **426**, 512
leukocytes, Inflammation: Border crossings, *News and views*, Ager, A, **421**, 703
Targeted recycling of PECAM from endothelial surface-connected compartments during diapedesis, *Letter to Nature*, Mamdouh, Z, Chen, X, Pierini, L M, Maxfield, F R, Muller, W A, **421**, 748
Leung, Katrina, Anything you can do, *Opinion*, **422**, 647
Livermore official linked with alleged spy, *News*, Brumfiel, G, **422**, 651
LEX score, Clear as mud, *News feature*, Knight, J, **423**, 376
lexical semantics, To put it simply, *Concepts*, Piattelli-Palmarini, M, **426**, 607
lexicostatistics, Trees of life and language, *News and views*, Searls, D B, **426**, 391
Lgl protein, The Par complex directs asymmetric cell division by phosphorylating the cytoskeletal protein Lgl, *Letter to Nature*, Betschinger, J, Mechtler, K, Knoblich, J A, **422**, 326
***Lhx6* gene**, A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917
libraries, Rare book collection faces final chapter, *News in brief*, **421**, 682
lichens, Ecology: Shady deals with lichens, *News and views*, Moore, P D, **421**, 591
lie detectors, US cuts use of lie detectors on job-hunting researchers, *News in brief*, **425**, 115
life cycle, Evolution of complex life cycles in helminth parasites, *Article*, Parker, G A, Chubb, J C, Ball, M A, Roberts, G N, **425**, 480
life sciences, Biology favoured in Japanese funding plan, *News in brief*, **425**, 9
Michigan unveils major life-sciences institute, *News in brief*, **425**, 9
Life Sciences Corridor, Biotech project in turmoil as Michigan balances books, *News*, Knight, J, **422**, 102
Lifelines, Daniel Pauly, *Lifelines*, **421**, 23
Michael Purugganan, *Lifelines*, **421**, 117
All that jazz... — Wolfgang Enard, *Lifelines*, **421**, 215
Of fossils and fusilli — Simon Conway Morris, *Lifelines*, **421**, 319
Solid foundations — Francis Albarède, *Lifelines*, **421**, 481
A questioning mind — Shuguang Zhang, *Lifelines*, **421**, 581
A thirst for knowledge — Gerry Melino, *Lifelines*, **421**, 697
Country life — M. Schweitzer, *Lifelines*, **421**, 793
A voyage of discovery — Victor Smetacek, *Lifelines*, **421**, 897
Down to Earth — Sara Russell, *Lifelines*, **422**, 23
Behind the blooms — David Smyth, *Lifelines*, **422**, 121
A comic book hero — Kazuhiko Kinosita Jr, *Lifelines*, **422**, 266
Developing themes — Neil Shubin, *Lifelines*, **422**, 381
Pipe dreams — Lyn Rothschild, *Lifelines*, **422**, 567
Seeking connections — H E Stanley, *Lifelines*, **422**, 819
Dreams of the past — Michel Brunet, *Lifelines*, **423**, 121
Into uncharted waters — Janos Hadju, *Lifelines*, **423**, 386
Outdoor pursuits — Sandy Knapp, *Lifelines*, **423**, 590
Charmed by snakes — Sean Carroll, *Lifelines*, **423**, 807
Classified information — Luis Chiappe, *Lifelines*, **424**, 19
In the spotlight — Bonnie Bassler, *Lifelines*, **424**, 256
Skeleton keys — Philippe Janvier, *Lifelines*, **424**, 493
Conscious efforts — Oleg Krishtal, *Lifelines*, **424**, 728
Hunting antimatter — Rolf Landua, *Lifelines*, **424**, 1000
How animals work — Yvon Le Maho, *Lifelines*, **425**, 129
The whole tooth — Roberto Macchiarelli, *Lifelines*, **425**, 349
Channel hopping — Chris Miller, *Lifelines*, **425**, 564
The observer — Vera Rubin, *Lifelines*, **425**, 773
Following the thread — Terry L Root, *Lifelines*, **426**, 20
Making connections– Kevin Padian, *Lifelines*, **426**, 233
Stranger than fiction — Joan Slonczewski, *Lifelines*, **426**, 501
From the grapevine — Ken Chien, *Lifelines*, **426**, 771

- **lifespan**, IGF-1 receptor regulates lifespan and resistance to oxidative stress in mice, *Letter to Nature*, Holzenberger, M, Dupont, J, Ducos, B, Leneuve, P, Geloen, A, Even, P C, Cervera, P, Le Bouc, Y, **421**, 182
  - Retraction: A cytosolic catalase is needed to extend adult lifespan in *C. elegans daf-C* and *clk-1* mutant, *Letter to Nature*, Taub, J, Lau, J F, Ma, C, Hahn, J H, Hoque, R, Rothblatt, J, Chalfie, M, **421**, 764
  - Ageing: Microarraying mortality, *News and views*, Gems, D, McElwee, J J, **424**, 259
  - Genes that act downstream of DAF-16 to influence the lifespan of *Caenorhabditis elegans*, *Article*, Murphy, C T, McCarroll, S A, Bargmann, C I, Fraser, A, Kamath, R S, Ahringer, J, Li, H, Kenyon, C, **424**, 277
  - Merchants of Immortality: Chasing the Dream of Human Life Extension, Hall, S, *Book review by* Olshansky, S J, **424**, 880
  - Ageing: A toast to long life, *News and views*, Finkel, T, **425**, 132
  - Small molecule activators of sirtuins extend *Saccharomyces cerevisiae* lifespan, *Letter to Nature*, Howitz, K T, Bitterman, K J, Cohen, H Y, Lamming, D W, Lavu, S, Wood, J G, Zipkin, R E, Chung, P, Kisielewski, A, Zhang, L-L, Scherer, B, Sinclair, D A, **425**, 191
  - Drinking your health? It's too early to say, *Correspondence*, Corder, R, Crozier, A, Kroon, P A, **426**, 119
  - *See also* **longevity**
- **lifestyle**, The double puzzle of diabetes, *News and views feature*, Diamond, J, **423**, 599
- **ligand-binding domains**, Structure and function of Nurr1 identifies a class of ligand-independent nuclear receptors, *Letter to Nature*, Wang, Z, Benoit, G, Liu, J, Prasad S, Aarnisalo, P, Liu, X, Walker, N P C, Perlmann, T, Xu, H, **423**, 555
- **ligand-gated ion channels**, Coupling of agonist binding to channel gating in the GABA_A receptor, *Letter to Nature*, Kash, T L, Jenkins, A, Kelley, J C, Trudell, J R, Harrison, N L, **421**, 272
- **light**, Optics: Ado about nothing much?, *News and views*, Buttiker, M, Washburn, S, **422**, 271
  - Photonics: Light gets a useful shock, *News and views*, Ball, P, **423**, 598
  - Art: Seeing the light, *Book review*, Cyranoski, D, **424**, 726
  - Discretizing light behaviour in linear and nonlinear waveguide lattices, *Insight review article*, Christodoulides, D M, Lederer, F, Silberberg, Y, **424**, 817
  - Directed bending of a polymer film by light, *Brief communication*, Yu, Y, Nakano, M, Ikeda, T, **425**, 145
- **light echoes**, An energetic stellar outburst accompanied by circumstellar light echoes, *Letter to Nature*, Bond, H E, Henden, A, Levay, Z G, Panagia, N, Sparks, W B, Starrfield, S, Wagner, R M, Corradi, R L M, Munari, U, **422**, 405
- **light flashes**, Space travel: Dual origins of light flashes seen in space, *Brief communication*, Casolino, M, Bidoli, V, Moreelli, A, Narici, L, De Pascale, M P, Picozza, P, Reali, E, Sparvoli, R, Mazzenga, G, Ricci, M, Spillantini, P, Boezio, M, Bonvicini, V, Vacchi, A, Zampa, N, Castellini, G, Sannita, W G, Carlson, P, Galper, A, Korotkov, M, Popov, A, Vavilov, N, Avdeev, S, Fuglesang, C, **422**, 680
- **light, polarized**, Polarized light as a butterfly mating signal, *Brief communication*, Sweeney, A, Jiggins, C, Johnsen, S, **423**, 31
- **light propagation**, Stationary pulses of light in an atomic medium, *Letter to Nature*, Bajcsy, M, Zibrov, A S, Lukin, M D, **426**, 638
- **light signalling**, FKF1 is essential for photoperiodic-specific light signalling in *Arabidopsis*, *Letter to Nature*, Imaizumi, T, Tran, H G, Swartz, T E, Briggs, W R, Kay, S A, **426**, 302
- **light therapy**, Restless nights, listless days, *News feature*, Abbott, A, **425**, 896
- **light-emitting diodes**, Understanding and tuning the epitaxy of large aromatic adsorbates by molecular design, *Letter to Nature*, Eremtchenko, M, Schaefer, J A, Tautz, F S, **425**, 602
- **lightning**, Atmospheric science: Lightning satellite survey, *News and views*, Clarke, T, **421**, 228
  - Atmospheric physics: Electric jets, *News and views*, Pasko, V P, **423**, 927
  - Gigantic jets between a thundercloud and the ionosphere, *Letter to Nature*, Su, H T, Hsu, R R, Chen, A B, Wang, Y C, Hsiao, W S, Lai, W C, Lee, L C, Sato, M, Fukunishi, H, **423**, 974
- **limbs**, Deciphering skeletal patterning: clues from the limb, *Insight review article*, Mariani, F V, Martin, G R, **423**, 319
- ***Limnodrilus hoffmeisteri***, Environmental biology: Metallic worms turn, *News and views*, Whitfield, J, **424**, 740
- **Lindemann, Frederick**, Prof: The Life of Frederick Lindemann, *Book review*, Fort, A, Young, S, **425**, 770
- **Lindemann limit**, Femtosecond X-ray measurement of coherent lattice vibrations near the Lindemann stability limit, *Letter to Nature*, Sokolowski-Tinten, K, Blome, C, Blums, J, Cavalleri, A, Dietrich, C, Tarasevitch, A, Uschmann, I, Forster, E, Kammier, M, Horn-von-Hoegen, M, von der Linde, D, **422**, 287
- **linear colliders**, Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108
  - Towards a clean collider, *Opinion*, **426**, 105
  - Particle-physics funder backs linear collider, *News in brief*, **426**, 376
- **linguistics**, Linguistics: Modelling the dynamics of language death, *Brief communication*, Abrams, D M, Strogatz, S H, **424**, 900
  - Language-tree divergence times support the Anatolian theory of Indo-European origin, *Letter to Nature*, Gray, R D, Atkinson, Q D, **426**, 435
- **lion man**, Lion man takes pride of place as oldest statue, *News*, Dalton, R, **425**, 7
- **lipid bilayers**, Imaging coexisting fluid domains I biomembrane models coupling curvature and line tension, *Letter to Nature*, Baumgart, T, Hess, S T, Webb, W W, **425**, 821
  - Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature, *Letter to Nature*, Bigay, J, Gounon, P, Robineau, S, Antonny, B, **426**, 563
- **lipid metabolism**, CREB controls hepatic lipid metabolism through nuclear hormone receptor PPAR-γ, *Letter to Nature*, Herzig, S, Hedrick, S, Morantte, I, Koo, S-H, Galimi, F, Montminy, M, **426**, 190
- **lipids**, Microbiology: Flab control, *News and views*, Heemels, M-T, **423**, 395
  - Cell biology: Earthworms and lipid couriers, *News and views*, Munro, S, **426**, 775
  - Molecular machinery for non-vesicular trafficking of ceramide, *Article*, Hanada, K, Kumagai, K, Yasuda, S, Miura, Y, Kawano, M, Fukasawa, M, Nishijima, M, **426**, 803
- **lipoproteins**, Ectopic β-chain of ATP synthase is an apolipoprotein A-I receptor in hepatic HDL endocytosis, *Letter to Nature*, Martinez, L O, Jacquet, S, Esteve, J-P, Rolland, C, Cabezon, E, Champagne, E, Pineau, T, Georgeaud, V, Walker, J E, Terce, F, Collet, X, Perret, B, Barbaras, R, **421**, 75
- **liquid crystal displays**, Electronic paper: Flexible active-matrix electronic ink display, *Brief communication*, Chen, Y, Au, J, Kazlas, P, Ritenour, A, Gates, H, McCreary, M, **423**, 136
- **liquid crystals**, Observation of surface and bulk phase transitions in nematic liquid crystals, *Letter to Nature*, Boamfa, M I, Kim, M W, Mann, J C, Rasing, Th, **421**, 149
  - Electronics: Polymers light the way, *News and views*, Holmes, A, **421**, 800
- **liquid–liquid interface**, Measuring dipolar width across liquid-liquid interfaces with 'molecular rulers', *Letter to Nature*, Steel, W H, Walker, R A, **424**, 296
- **liquid-metal-ion guns**, Surface science: View from the edge, *News and views*, Castner, D G, **422**, 129
- **liquids**, Wetting properties: When larger drops evaporate faster, *Brief communication*, Leizerson, I, Lipson, S G, Lyushnin, A V, **422**, 395
- **lisinopril**, Crystal structure of the human angiotensin-converting enzyme-lisinopril complex, *Letter to Nature*, Natesh, R, Schwager, S L U, Sturrock, E D, Acharya, K R, **421**, 551
- **literature**, Haeckel's literary hopes dashed by materialism?, *Correspondence*, Hossfeld, U, Nöthlich, R, Olsson, L, **424**, 875
- **lithium**, Alzheimer's disease: Mental plaque removal, *News and views*, De Strooper, B, Woodgett, J, **423**, 392
  - Lithium-ion batteries: Runaway risk of forming toxic compounds, *Brief communication*, Hammami, A, Raymond, N, Armand, M, **424**, 635
  - The ups and downs of lithium, *News feature*, Pilcher, H R, **425**, 118
  - Astrophysics: Lost lithium, *News and views*, Baker, J, **425**, 472
- **lithography**, Erasable electrostatic lithography for quantum components, *Letter to Nature*, Crook, R, Graham, A C, Smith, C G, Farrer, I, Beere, H E, Ritchie, D A, **424**, 751
- **lithosphere**, Earth science: Ins and outs on the ocean floor, *News and views*, Sclater, J G, **421**, 590
- **Little Ice Age**, Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean, *Letter to Nature*, Gupta, A K, Anderson, D M, Overpeck, J T, **421**, 354
- **liver**, Transplanted bone marrow regenerates liver by cell fusion, *Letter to Nature*, Vassilopoulos, G, Wang, P-R, Russell, D W, **422**, 901
  - China takes centre stage for liver proteome, *News*, Cyranoski, D, **425**, 441
- **liverwort**, Ecology: A liverwort cheat, *News and views*, Lincoln, T, **422**, 826
- **Living Implants from Engineering (LIFE)**, The beat goes on, *News feature*, Zandonella, C, **421**, 884
- **lizards**, Niche lability in the evolution of a Caribbean lizard community, *Letter to Nature*, Losos, J B, Leal, M, Glor, R E, de Queiroz, K, Hertz, P E, Rodriguez Schettino, L, Lara, A C, Jackman, T R, Larson, A, **424**, 542
  - Ocean currents mediate evolution in islands lizards, *Letter to Nature*, Calsbeek, R, Smith, T B, **426**, 552
- **LKB1 protein**, A role for *Drosophila* LKB1 in anterior-posterior axis formation and epithelial polarity, *Letter to Nature*, Martin, S G, St Johnston, D, **421**, 379
- **Lönnig, Ekkehard**, Axeing of website article sparks row at Max Planck, *News*, Abbott, A, **422**, 460
- **lobbying**, Don't create a climate of fear, *Opinion*, **425**, 885
- **lobsters**, The lobster navigators, *News and views*, Alerstam, T, **421**, 27
  - True navigation and magnetic maps in spiny lobsters, *Letter to Nature*, Boles, L C, Lohmann, K J, **421**, 60
- **Local Group of Galaxies**, The far-ultraviolet signature of the 'missing' baryons in the Local Group of Galaxies, *Letter to Nature*, Nicastro, F, Zezas, A, Elvis, M, Mathur, S, Flore, F, Cecchi-Pestellini, C, Burke, D, Drake, J, Casella, P, **421**, 719
- **Lockyer, Normal**, Nature's founder gains mark of recognition, *News in brief*, **421**, 307
- **locomotion**, A catapult action for rapid limb protraction, *Brief communication*, Wilson, A M, Watson, J C, Lichtwark, G A, **421**, 35
  - Neurobiology: Spine conducts hip-hop, *News and views*, Pearson, H, **422**, 393
  - Are fast-moving elephants really running?, *Brief communication*, Hutchinson, J R, Famini, D, Lair, R, Kram, R, **422**, 493
  - Principles of Animal Locomotion, McNeill Alexander, R, *Book review by* Gatesy, S, **422**, 665
  - Biomechanics: With a swing, *News and views*, Whitfield, J, **422**, 829
  - Early work on elephant gait not to be forgotten, *Correspondence*, Sacks, O, **423**, 221
  - Lowly Origin: Where, When, and Why Our Ancestors First Stood Up, Kingdon, J, *Book review by* Rook, L, **423**, 804
  - Delta-wing function of webbed feet gives hydrodynamic lift for swimming propulsion in birds, *Letter to Nature*, Johansson, L C, Norberg, R A, **424**, 65
  - How to walk on water, *News and views*, Dickson, M, **424**, 621
  - Complete atomic model of the bacterial flagellar filament by electron cryomicroscopy, *Article*, Yonekura, K, Makl-Yonekura, S, Namba, K, **424**, 643
  - The hydrodynamics of water strider locomotion, *Letter to Nature*, Hu, D L, Chan, B, Bush, J W M, **424**, 663
  - Flying and swimming animals cruise at a Strouhal number tuned for high-power efficiency, *Letter to Nature*, Taylor, G K, Nudds, R L, Thomas, A L R, **425**, 707
- **logic gates**, Quantum computing: Logic gateway, *News and views*, Steane, A, **422**, 387
  - Demonstration of conditional gate operation using superconducting charge qubits, *Letter to Nature*, Yamamoto, T, Pashkin, Y A, Astaflev, O, Nakamura, Y, Tsai, J S, **425**, 941
- **Lomborg, Bjørn**, More heat, less light on Lomborg, *Editorial*, **421**, 195
  - Ethics panel attacks environment book, *News*, Abbott, A, **421**, 201
  - Social scientists call for abolition of dishonesty committee, *News*, Abbott, A, **421**, 681
  - The man they love to hate, *News feature*, Giles, J, **423**, 216
- **longevity**, Physiology: Cost-free longevity in mice, *News and views*, Lithgow, G J, Gill, M S, **421**, 125
  - Molecular physiology: Tuned for longer life, *News and views*, Turner, R, **423**, 125
  - Nicotinamide and *PNC1* govern lifespan extension by calorie restriction in *Saccharomyces cerevisiae*, *Letter to Nature*, Andersen, R M, Bitterman, K J, Wood, J G, Medvedik, O, Sinclair, D A, **423**, 181
  - Ageing: A toast to long life, *News and views*, Finkel, T, **425**, 132
  - *See also* **lifespan**
- ***Lord of the Rings***, Exhibition: A hobbit-forming show, *Exhibition review*, Gee, H, **425**, 455
- **Lorenz systems**, Nonlinear dynamics: Synchronization from chaos, *News and views*, Ashwin, P, **422**, 384
- **lorises**, Palaeontology: Combing the primate record, *News and views*, Martin, R D, **422**, 388
  - Fossil evidence for an ancient divergence of lorises and galagos, *Letter to Nature*, Seiffert, E R, Simons, E L, Attia, Y, **422**, 421
- **low temperature**, Low-temperature processing of 'baroplastics' by pressure-induced flow, *Letter to Nature*, Gonzalez-Leon, J A, Acar, M H, Ryu, S-W, Ruzette, A-V G, Mayes, A M, **426**, 424
- **Lower Cretaceous**, An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807
- **Lower Palaeolithic period**, Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic, *Letter to Nature*, Barkai, R, Gopher, A, Lauritzen, S E, Frumkin, A, **423**, 977
- ***lps2***, Identification of *Lps2* as a key transducer of MyD88-independent TIR signalling, *Article*, Hoebe, K, Du, X, Georgel, P, Janssen, E, Tabeta, K, Kim, S O, Goode, J, Lin, P, Mann, N, Mudd, S, Crozat, K, Sovath, S, Han, J, Beutler, B, **424**, 743
- **LTag**, Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen, *Article*, Li, D, Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Jochimiak, A, Szakonyi, G, Chen, X S, **423**, 512
  - Corrigendum: Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen, *Letter to Nature*, Li, D, Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Joachimiak, A, Szakonyi, G, Chen, X S, **425**, 102
- ***Lufengpithecus chiangmuanensis***, A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61
- **luminance contrast**, Motion-induced spatial conflict, *Letter to Nature*, Arnold, D H, Johnston, A, **425**, 181
- **Luminet, Jean-Pierre**, Luminet's illuminations, *Science in culture*, Kemp, M, **426**, 232
- **Lunar Prospector**, Radar imaging of the lunar poles, *Brief communication*, Campbell, B A, Campbell, D B, Chandler, J F, Hine, A A, Nolan, M C, Perillat, P J, **426**, 137
- ***lunatic fringe* gene**, Periodic Notch inhibition by Lunatic Fringe underlies the chick segmentation clock, *Letter to Nature*, Dale, J K, Maroto, M, Dequeant, M L, Malapert, P, McGrew, M, Pourquie, O, **421**, 275
- **lung cancer**, Hedgehog signalling within airway epithelial progenitors and in small-cell lung cancer, *Letter to Nature*, Watkins, D N, Berman, D M, Burkholder, S G, Wang, B, Beachy, P A, Baylin, S B, **422**, 313
  - Cancer: Further perils of passive smoking, *News and views*, Pilcher, H R, **425**, 472
- **lungfish**, A larval Devonian lungfish, *Letter to Nature*, Thomson, K S, Sutton, M, Thomas, B, **426**, 833
- **lutetium**, Geochemistry: Lost terrains of early Earth, *News and views*, Jacobsen, S B, **421**, 901
  - Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites, *Letter to Nature*, Bizzarro, M, Baker, J A, Haack, H, Ulfbeck, D, Rosing, M, **421**, 931
- **Lyapunov exponent**, Nonlinear dynamics: Chaos relatively robust, *News and views*, Ball, P, **426**, 784
- **lymphocytes**, Feature: The double helix and immunology, *Feature*, Nossal, G J V, **421**, 440
- **lymphocytic choriomeningitis virus**, Specific cytotoxic T cells eliminate cells producing neutralizing antibodies, *Letter to Nature*, Planz, O, Seiler, P, Hengartner, H, Zinkernagel, R M, **426**, 474

LysM receptor-like kinases, Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases, *Article*, Radutoiu, S, Madsen, L H, Madsen, E B, Felle, H H, Umehara, Y, Gronlund, M, Sato, S, Nakamura, Y, Tabata, S, Sandal, N, Stougaard, J, **425**, 585
A receptor kinase gene of the LysM type is involved in legume perception of rhizobial signals, *Letter to Nature*, Madsen, E B, Madsen, L H, Radutolu, S, Olbryt, M, Rakwalska, M, Szczyglowski, K, Sato, S, Kaneko, T, Tabata, S, Sandal, N, Stougaard, J, **425**, 637
lysozyme, A camelid antibody fragment inhibits the formation of amyloid fibrils by human lysozyme, *Letter to Nature*, Dumoulin, M, Last, A M, Desmyter, A, Decanniere, K, Canet, D, Larsson, G, Spencer, A, Archer, D B, Sasse, J, Muyldermans, S, Wyns, L, Redfield, C, Matagne, A, Robinson, C V, Dobson, C M, **424**, 783

macaques, A spatially organized representation of colour in macaque cortical area V2, *Letter to Nature*, Xiao, Y, Wang, Y, Felleman, D J, **421**, 535
Macchiarelli, Roberto, The whole tooth — Roberto Macchiarelli, *Lifelines*, **425**, 349
Mach–Zehnder interferometer, An electronic Mach–Zehnder interferometer, *Letter to Nature*, Ji, Y, Chung, Y, Sprinzak, D, Heiblum, M, Mahalu, D, Shtrikman, H, **422**, 415
MacKinnon, Roderick, Channel hoppers land chemistry Nobel, *News*, Giles, J, **425**, 651
Membrane proteins: Channel voyager makes waves, *News feature*, Abbott, A, **426**, 755
McQueary, Charles, Homeland science chief wants quick fixes, *News*, Check, E, **423**, 106
macromolecules, Cell biology: Join the crowd, *News and views*, Ellis, R J, Minton, A P, **425**, 27
Chemistry: Dendrimers set to self-destruct, *News and views*, Meijer, E W, van Genderen, M H P, **426**, 128
macrophages, Immunology: Hide and seek, *News and views*, Heemels, M-T, **424**, 31
macrophomate synthase, Insight into a natural Diels–Alder reaction from the structure of macrophomate synthase, *Letter to Nature*, Ose, T, Watanabe, K, Mie, T, Honma, M, Watanabe, H, Yao, M, Oikawa, H, Tanaka, I, **422**, 185
macropinocytosis, Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37
macroscopic systems, Quantum physics: Uncertain future, *News and views*, Blencowe, M, **424**, 262
mad cow disease, *See* bovine spongiform encephalopathy
Madagascar, Single of origin of Malagasy Carnivora from an African ancestor, *Letter to Nature*, Yoder, A D, Burns, M M, Zehr, S, Delefosse, T, Veron, G, Goodman, S M, Flynn, J J, **421**, 734
Cannibalism in the Madagascan dinosaur *Majungatholus atopus*, *Letter to Nature*, Rogers, R R, Krause, D W, Curry Rogers, K, **422**, 515
Predicting distributions of known and unknown reptile species in Madagascar, *Letter to Nature*, Raxworthy, C J, Martinez-Meyer, E, Horning, N, Nussbaum, R A, Schneider, G E, Ortega-Huerta, M A, Peterson, A T, **426**, 837
Madey, John, Laser quest foiled as officials sent packing, *News in brief*, **422**, 106
MADS-box genes, Sequence-specific recruitment of transcriptional co-repressor Cabin1 by myocyte enhancer factor-2, *Letter to Nature*, Han, A, Pan, F, Stroud, J C, Youn, H-D, Liu, J O, Chen, L, **422**, 730
Assessing the redundancy of MADS-box genes during carpel and ovule development, *Letter to Nature*, Pinyopich, A, Ditta, G S, Savidge, B, Liljegren, S J, Baumann, E, Wisman, E, Yanofsky, M F, **424**, 85
MAGIC telescope, Telescope trains a MAGIC eye on the Universe, *News in brief*, **425**, 653
magmatic processes, The importance of water to oceanic mantle melting regimes, *Article*, Asimow, P D, Langmuir, C H, **421**, 815
Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas, *Letter to Nature*, Sun, W, Bennett, V C, Eggins, S M, Kamenetsky, V S, Arculus, R J, **422**, 294
Magmatic events can produce rapid changes in hydrothermal vent chemistry, *Letter to Nature*, Lilley, M D, Butterfield, D A, Lupton, J E, Olson, E J, hydrothermal vents, **422**, 878
Earth science: Spread thin in the Arctic, *News and views*, Klein, E M, **423**, 932
Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel Ridge, Arctic Ocean, *Article*, Michael, P J, Langmuir, C H, Dick, H J B, Snow, J E, Goldstein, S L, Graham, D W, Lehnert, K, Kurras, G, Jokat, W, Muhe, R, Edmonds, H N, **423**, 956
Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge, *Letter to Nature*, Jokat, W, Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J, **423**, 962
Explosive volcanism may not be an inevitable consequence of magma fragmentation, *Letter to Nature*, Gonnermann, H M, Manga, M, **426**, 432
magnesium, Electrochemistry: Magnesium power, *News and views*, Ball, P, **423**, 30
Cell biology: Channel taps magnesium, *News and views*, Pearson, H, **424**, 630
magnesium diboride, The origin of multiple superconducting gaps in MgB_2, *Letter to Nature*, Souma, S, Machida, Y, Sato, T, Takahashi, T, Matsui, H, Wang, S C, Ding, H, Kaminski, A, Campuzano, J C, Sasaki, S, Kadowaki, K, **423**, 65
magnetic dipole moment, Entangled quantum state of magnetic dipoles, *Letter to Nature*, Ghosh, S, Rosenbaum, T F, Aeppli, G, Coppersmith, S N, **425**, 48
magnetic fields, The lobster navigators, *News and views*, Alerstam, T, **421**, 27
Wave-like properties of solar supergranulation, *Letter to Nature*, Gizon, L, Duvall Jr, T L, Schou, J, **421**, 43
True navigation and magnetic maps in spiny lobsters, *Letter to Nature*, Boles, L C, Lohmann, K J, **421**, 60
Model for magnetic mystery, *News and views*, Zuber, M T, **421**, 119
An early lunar core dynamo driven by thermochemical mantle convection, *Letter to Nature*, Stegman, D R, Jellinek, A M, Zatman, S A, Baumgardner, J R, Richards, M A, **421**, 143
Addendum: Magnetic shape-memory effects in a crystal, *Brief communication*, Lavrov, A N, Komiya, S, Ando, Y, **421**, 230
Magic moments, *Concepts*, Ramirez, A P, **421**, 483
Erratum: Wave-like properties of solar supergranulation, *Letter to Nature*, Gizon, L, Duvall Jr, T L, Schou, J, **421**, 764
Atomic physics: A new spin on magnetometry, *News and views*, Budker, D, **422**, 574
A subfemtotesla multichannel tomic magnetometer, *Letter to Nature*, Kominis, I K, Kornack, T W, Allred, J C, Romalis, M V, **422**, 596
An inverse transition of magnetic domain patterns in ultrathin films, *Letter to Nature*, Portmann, O, Vaterlaus, A, Pescla, D, **422**, 701
The magnetic field of an isolated neutron star from X-ray cyclotron absorption lines, *Letter to Nature*, Bignami, G F, Caraveo, P A, De Luca, A, Mereghetti, S, **423**, 725
Quantum physics: Entanglement hits the big time, *News and views*, Vedral, V, **425**, 28
Entangled quantum state of magnetic dipoles, *Letter to Nature*, Ghosh, S, Rosenbaum, T F, Aeppli, G, Coppersmith, S N, **425**, 48
Magnetic enhancement of superconductivity from electron spin domains, *Letter to Nature*, Radovan, H A, Fortune, N A, Murphy, T P, Hannahs, S T, Palm, E C, Tozer, S W, Hall, D, **425**, 51
Magnetic effect sends physicists into a spin, *News*, Brumfiel, G, **426**, 110
Condensed-matter physics: The quest for imperfection, *News and views*, Rosenbaum, T F, **426**, 135
magnetic fields, Earth's, The lobster navigators, *News and views*, Alerstam, T, **421**, 27
True navigation and magnetic maps in spiny lobsters, *Letter to Nature*, Boles, L C, Lohmann, K J, **421**, 60
Atmospheric physics: A new dawn for aurora, *News and views*, Newell, P T, **424**, 734
Intense equatorial flux spots on the surface of the Earth's core, *Letter to Nature*, Jackson, A, **424**, 760
magnetic flux, Ordering and manipulation of the magnetic moments in large-scale superconducting π-loop arrays, *Letter to Nature*, Hilgenkamp, H, Ariando, Smilde, H-J H, Blank, D H A, Rijnders, G, Rogalla, H, Kirtley, J R, Tsuei, C C, **422**, 50
magnetic insulators, Bose–Einstein condensation of the triplet states in the magnetic insulator $TlCuCl_3$, *Letter to Nature*, Rüegg, Ch, Cavadini, N, Furrer, A, Güdel, H-U, Krämer, K, Mutka, H, Wildes, A, Habicht, K, Vorderwisch, P, **423**, 62
magnetic levitation, Floating gold in cryogenic oxygen, *Brief communication*, Catherall, A T, Eaves, L, King, P J, Booth, S R, **422**, 579
magnetic maps, The lobster navigators, *News and views*, Alerstam, T, **421**, 27
True navigation and magnetic maps in spiny lobsters, *Letter to Nature*, Boles, L C, Lohmann, K J, **421**, 60
magnetic memory, Applied physics: Spintronics gets a magnetic flute, *News and views*, Sun, J, **425**, 359
magnetic moment, Ordering and manipulation of the magnetic moments in large-scale superconducting π-loop arrays, *Letter to Nature*, Hilgenkamp, H, Ariando, Smilde, H-J H, Blank, D H A, Rijnders, G, Rogalla, H, Kirtley, J R, Tsuei, C C, **422**, 50
magnetic random access memory, Programmable computing with a single magnetoresistive element, *Letter to Nature*, Ney, A, Pampuch, C, Koch, R, Ploog, K H, **425**, 485
magnetic reconnection, Continuous magnetic reconnection at Earth's magnetopause, *Letter to Nature*, Frey, H U, Phan, T D, Fuselier, S A, Mende, S B, **426**, 533
magnetic resonance imaging, Take a deep breath, *News feature*, Klarreich, E, **424**, 873
Physician launches public protest over medical Nobel, *News*, Pearson, H, **425**, 648
Russian claims first in magnetic imaging, *News*, MacWilliams, B, **426**, 375
Nobel protester gets Swedish physics gong, *News in brief*, **426**, 596
magnetism, Beating the superparamagnetic limit with exchange bias, *Letter to Nature*, Skumryev, V, Stoyanov, S, Zhang, Y, Hadjipanayis, G, Givord, D, Nogués, J, **423**, 850
Condensed-matter physics: Singular behaviour, *News and views*, Fisk, Z, **424**, 504
Condensed-matter physics: Spurious magnetism in high-T_c superconductor, *Brief communication*, Mang, P K, Larochelle, S, Greven, M, **426**, 139
Reply: Condensed-matter physics: Spurious magnetism in high-Tc superconductor, *Brief communication*, Kang, H J, Dai, P, Lynn, W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y, **426**, 140
magnetization, Magnetization distribution in the mixed-phase state of hole-doped manganites, *Letter to Nature*, Murakami, Y, Yoo, J H, Shindo, D, Atou, T, Kikuchi, M, **423**, 965
magnetoelectric effect, Magnetic control of ferroelectric polarization, *Letter to Nature*, Kimura, T, Goto, T, Shintani, H, Ishizaka, K, Arima, T, Tokura, Y, **426**, 55
magnetometry, Atomic physics: A new spin on magnetometry, *News and views*, Budker, D, **422**, 574
A subfemtotesla multichannel tomic magnetometer, *Letter to Nature*, Kominis, I K, Kornack, T W, Allred, J C, Romalis, M V, **422**, 596
magnetoresistance, Electric field effect in correlated oxide systems, *Progress article*, Ahn, C H, Triscone, J-M, Mannhart, J, **424**, 1015
Programmable computing with a single magnetoresistive element, *Letter to Nature*, Ney, A, Pampuch, C, Koch, R, Ploog, K H, **425**, 485
A coherent three-dimensional Fermi surface in a high-transition-temperature superconductor, *Letter to Nature*, Hussey, N E, Abdel-Jawad, M, Carrington, A, MacKenzie, A P, Balicas, L, **425**, 814
Non-saturating magnetoresistance in heavily disordered semiconductors, *Letter to Nature*, Parish, M M, Littlewood, P B, **426**, 162
magnets, Condensed-matter physics: Two bodies are better than one, *News and views*, Barbara, B, **421**, 32
High-temperature superconductor bulk magnets that can trap magnetic fields of over 17 tesla at 29K, *Letter to Nature*, Tomita, M, Murakami, M, **421**, 517
Magsat satellite, Intense equatorial flux spots on the surface of the Earth's core, *Letter to Nature*, Jackson, A, **424**, 760
Maguire, Eleanor, Spoof Nobels take researchers for a ride, *News*, Nadis, S, **425**, 550
maidenhair tree, The missing link in Ginkgo evolution, *Brief communication*, Zhou, Z, Zheng, S, **423**, 821
mail, Efficiency of equine express postal systems, *Brief communication*, Minetti, A E, **426**, 785
mail order, The crystal's in the mail, *News feature*, Smith Schmidt, T, 423, 799
Main Injector Neutrino Oscillation Search (MINOS), Fermilab digs deep in bid to study neutrinos, *News in brief*, **424**, 869
maize, Europe uproots patent for DuPont's oil-rich maize, *News in brief*, **421**, 778
Agency 'ignoring its advisors' over Bt maize, *News*, Knight, J, **422**, 5
Genetics of gene expression surveyed in maize, mouse and man, *Letter to Nature*, Schadt, E E, Monks, S A, Drake, T A, Lusis, A J, Che, N, Colinayo, V, Ruff, T G, Milligan, S B, Lamb, J R, Cavet, G, Linsley, P S, Mao, M, Stoughton, R B, Friend, S H, **422**, 297
Maize map see geneticists split over choice of direction, *News*, Dennis, C, **424**, 476
George Beadle, and Uncommon Farmer: The Emergence of Genetics in the 20th Century, Berg, P, Singer, M, *Book review by* Müller-Hill, B, **426**, 122
major histocompatibility complex, Selection of evolutionarily conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **422**, 164
Immunology: A numbers game, *News and views*, Heemels, M-T, **422**, 577
Corrigendum: Selection of evolutionary conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **423**, 1018
Phagosomes are competent organelles for antigen cross-presentation, *Letter to Nature*, Houde, M, Bertholet, S, Gagnon, E, Brunet, S, Goyette, G, Laplante, A, Princiotta, M F, Thibault, P, Sacks, D, Desjardins, M, **425**, 402
Majungatholus atopus, Cannibalism in the Madagascan dinosaur *Majungatholus atopus*, *Letter to Nature*, Rogers, R R, Krause, D W, Curry Rogers, K, **422**, 515
Makorin1-p1, Molecular biology: Complicity of gene and pseudogene, *News and views*, Lee, J T, **423**, 26
An expressed pseudogene regulates the messenger-RNA stability of its homologous coding gene, *Letter to Nature*, Hirotsune, S, Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A, **423**, 91
Addendum: An expressed pseudogene regulates the messenger-RNA stability of its homogulous coding gene, *Letter to Nature*, Hirotsune, S, Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A, **426**, 100
malaria, Malaria — there could be a third way, *Correspondence*, Miles, M A, **421**, 13
Gates ploughs millions into plan for assault on killer diseases, *News*, Butler, D, **421**, 461
Malaria: Pump hijacker, *News and views*, Pearson, H, **423**, 30
Comparative genomics: Insecticide resistance in mosquito vectors, *Brief communication*, Weill, M, Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M, **423**, 136
Sweet revenge, *News feature*, Dennis, C, **423**, 580
Malaria: To kill a parasite, *News and views*, Ridley, R G, **424**, 887
Artemisinins target the SERCA of *Plasmodium falciparum*, *Letter to Nature*, Eckstein-Ludwig, U, Webb, R J, van Goethem, I D A, East, J M, Lee, A G, Kimura, M, O'Neill, P M, Bray, P G, Ward, S A, Krishna, S, **424**, 957
Gates steps up war on malaria with donation of $168 million, *News*, Butler, D, **425**, 331
In praise of Gates, *Editorial*, **425**, 435
Mosquito production mooted as fast track to malaria vaccine, *News*, Butler, D, **425**, 437
Filling the gap between knowing and doing, *Correspondence*, Pang, T, **426**, 383
Developing-world health: the fightback starts here, *News feature*, Butler, D, **426**, 754

malaria, genome, Malaria — there could be a third way, *Correspondence*, Miles, M A, **421**, 13
Malaria after the genome, *Editorial*, **421**, 97
malaria, vaccine, Malaria — there could be a third way, *Correspondence*, Miles, M A, **421**, 13
malariotherapy, AIDS scientist rapped over controversial treatment test, *News in brief*, **422**, 794
Malaysia, Malaysia puts biovalley under wraps, *News*, Cyranoski, D, **424**, 118
Mammal Networked Information System, Mammal experts get networking opportunity, *News in brief*, **424**, 480
mammals, Parallel extinction risk and global distribution of languages and species, *Letter to Nature*, Sutherland, W J, **423**, 276
Reproductive biology: Mammary messages, *News and views*, Blass, E M, **424**, 25
Chemical and behavioural characterization of the rabbit mammary pheromone, *Letter to Nature*, Schaal, B, Coureaud, G, Langlois, D, Ginies, C, Semon, E, Perrier, G, **424**, 68
Mammal experts get networking opportunity, *News in brief*, **424**, 480
Biologists call for tracking as mammal numbers dive, *News*, Dalton, R, **424**, 715
An Arctic mammal fauna from the Early Pliocene of North America, *Letter to Nature*, Tedford, R H, Harington, C R, **425**, 388
mammals, brain, Presynaptic induction of heterosynaptic associative plasticity in the mammalian brain, *Letter to Nature*, Humeau, Y, Shaban, H, Bissiere, S, Luthi, A, **426**, 841
mammals, evolution, Mammalian evolution: Isolationist tendencies, *News and views*, Jaeger, J-J, **426**, 509
Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549
mammals, fossils, An Arctic mammal fauna from the Early Pliocene of North America, *Letter to Nature*, Tedford, R H, Harington, C R, **425**, 388
Mammalian evolution: Isolationist tendencies, *News and views*, Jaeger, J-J, **426**, 509
Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549
mammals, teeth, Evolutionary biology: Teeth as tools, *News and views*, Weil, A, **422**, 128
man-made disasters, How to clean a beach, *News feature*, Whitfield, J, **422**, 464
Chemical catastrophe poisons Brazilian rivers, *News in brief*, **422**, 552
Spanish oil company has Prestige clean-up operation in the bag, *News in brief*, **422**, 552
When Food Kills: BSE, *E. coli* and Disaster Science, Pennington, H, *Book review by* Rubery, E, **425**, 561
manganese sulphide, Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Meng, Q, Frankel, G S, Colijn, H O, Goss, S H, **424**, 389
Reply: Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Ryan, M P, Williams, D E, Chater, R J, Hutton, B M, McPhail, D S, **424**, 390
manganites, Magnetization distribution in the mixed-phase state of hole-doped manganites, *Letter to Nature*, Murakami, Y, Yoo, J H, Shindo, D, Atou, T, Kikuchi, M, **423**, 965
Manhattan Project, The National Labs: Science in an American System 1947–1974, Westwick, P J, *Book review by* York, H, **425**, 240
Mansfield, Peter, Magnetic pioneers net Nobel for putting medicine in the picture, *News*, Pearson, H, **425**, 547
mantle, Earth's, A window on the inner Earth, *News feature*, Dalton, R, **421**, 10
Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618
A discontinuity in mantle composition beneath the southwest Indian ridge, *Letter to Nature*, Meyzen, C M, Toplis, M J, Humler, E, Ludden, J N, Mevel, C, **421**, 731
The importance of water to oceanic mantle melting regimes, *Article*, Asimow, P D, Langmuir, C H, **421**, 815
Early history of Earth's crust-mantle system inferred from hafnium isotopes in chondrites, *Letter to Nature*, Bizzarro, M, Baker, J A, Haack, H, Ulfbeck, D, Rosing, M, **421**, 931
Iron-silica interaction at extreme conditions and the electrically conducting layer at the base of Earth's mantle, *Letter to Nature*, Dubrovinsky, L, Dubrovinskaia, N, Langenhorst, F, Dobson, D, Rubie, D, Gessmann, C, Abrikosov, I A, Johansson, B, Baykov, V I, Vitos, L, Le Bihan, T, Crichton, W A, Dmitriev, V, Weber, H-P, **422**, 58
Earth science: Mantle deformation or processing artefact?, *Brief communication*, Saul, J, Vinnik, L, **422**, 136
Reply: Earth science: Mantle deformation or processing artefact?, *Brief communication*, Wookey, J, Kendall, J-M, Barruol, G, **422**, 136
Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas, *Letter to Nature*, Sun, W, Bennett, V C, Eggins, S M, Kamenetsky, V S, Arculus, R J, **422**, 294
Global anisotropy and the thickness of continents, *Letter to Nature*, Gung, Y, Panning, M, Romanowicz, B, **422**, 707
Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68
^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **423**, 428
Mantle thermal pulses below the Mid-Atlantic Ridge and temporal variations in the formation of oceanic lithosphere, *Article*, Bonatti, E, Ligi, M, Brunelli, D, Cipriani, A, Fabretti, P, Ferrante, V, Gasperini, L, Ottolini, L, **423**, 499
The 'zero charge' partitioning behaviour of noble gases during mantle melting, *Letter to Nature*, Brooker, R A, Du, Z, Blundy, J D, Kelley, S P, Allan, N L, Wood, B J, Chamorro, E M, Wartho, J-A, Purton, J A, **423**, 738
Archaean ultra-depleted komatiites formed by hydrous melting of cratonic mantle, *Letter to Nature*, Wilson, A H, Shirey, S B, Carlson, R W, **423**, 858
High ^{3}He/^{4}He ratios in picritic basalts from Baffin Island and the role of a mixed reservoir in mantle plumes, *Letter to Nature*, Stuart, F M, Lass-Evans, S, Fitton, J G, Ellam, R M, **424**, 57
Carbon solubility in olivine and the mode of carbon storage in the Earth's mantle, *Letter to Nature*, Keppler, H, Wiedenbeck, M, Shcheka, S S, **424**, 414
Corrigendum: ^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **424**, 974
Earth science: Just add water, *News and views*, Hofmann, A W, **425**, 24
Whole-mantle convection and the transition-zone water filter, *Hypothesis*, Bercovici, D, Karato, S-I, **425**, 39
Laboratory models of the thermal evolution of the mantle during rollback subduction, *Letter to Nature*, Kincaid, C, Griffiths, R W, **425**, 58
Bending-related faulting and mantle serpentinization at the Middle America trench, *Article*, Ranero, C R, Phipps Morgan, J, McIntosh, K, Reichert, C, **425**, 367
Boundary-layer mantle flow under the Dead Sea transform fault inferred from seismic anisotropy, *Letter to Nature*, Rumpker, G, Ryberg, T, Bock, G, Desert Seismology Group, **425**, 497
The Dynamic Structure of the Deep Earth: An Interdisciplinary Approach, Karato, S-I, *Book review by* Williams, Q, **426**, 231
An ultraslow-spreading class of ocean ridge, *Article*, Dick, H J B, Lin, J, Schouten, H, **426**, 405
See also **earth science**
mantle transition zone, Whole-mantle convection and the transition-zone water filter, *Hypothesis*, Bercovici, D, Karato, S-I, **425**, 39
manual dexterity, Manual dexterity in Neanderthals, *Brief communication*, Niewoehner, W A, Bergstrom, A, Eichele, D, Zuroff, M, Clark, J T, **422**, 395
maps, Philology: The pages of history, *Book review*, Abbott, A, **423**, 588
Earth maps put environment treaties into perspective, *News in brief*, **426**, 489
Marcus, Emilie, Search comes to an end as *Cell* fills editor's chair, *News in brief*, **425**, 552
marijuana, Court ruling sees ban on medical marijuana go up in smoke, *News in brief*, **425**, 756
marine biology, The oresmen, *News feature*, Schiermeier, Q, **421**, 109
GreenSea's interest in fertilizing sea with iron, *Correspondence*, Rice, M L, **421**, 786
Giant jellyfish leaves researchers red-faced, *News in brief*, **423**, 214
The Biology of Sea Turtles, Volume II, Lutz, P L, Musick, K A, Wyneken, J, *Book review by* Mrosovsky, N, **423**, 225
Deep-sea sub aims to get to the bottom of a muddy issue, *News*, Schiermeier, Q, **423**, 469
The genome of a motile marine *Synechococcus*, *Letter to Nature*, Palenik, B, Brahamsha, B, Larimer, F W, Land, M, Hauser, L, Chain, P, Lamerdin, J, Regala, W, Allen, E E, McCarren, J, Paulsen, I, Dufresne, A, Partensky, F, Webb, E A, Waterbury, J, **424**, 1037
Genome divergence in two *Prochlorococcus* ecotypes reflects oceanic niche differentiation, *Letter to Nature*, Rocap, G, Larimer, F W, Lamerdin, J, Malfatti, S, Chain, P, Ahigren, N A, Arellano, S, Coleman, M, Hauser, L, Hess, W R, Johnson, Z I, Land, M, Lindell, D, Post, A F, Regala, W, Shah, M, Shaw, S L, Steglich, C, Sullivan, M B, Ting, C S, Tolonen, A, Webb, E A, Zinser, E R, Chisholm, S W, **424**, 1042
High diversity of unknown picorna-like viruses in the sea, *Letter to Nature*, Culley, A I, Lang, A S, Suttle, C A, **424**, 1054
Marine survey sees net gain in number of fish species, *News*, Mason, B, **425**, 889
Close encounters of the jelly kind, *News feature*, Dennis, C, **426**, 12
Whale of a catch blows hole in family tree, *News*, Cyranoski, D, **426**, 219
Aircraft give a new view of jellyfish behaviour, *Correspondence*, Hays, G C, Houghton, J D R, **426**, 383
Swamp row bogs down Singapore's bid to reclaim land, *News*, Cyranowski, D, **426**, 592
marine ecology, Marine ecology: Fish that go to the cleaners, *News and views*, Whitfield, J, **421**, 493
Marine ecology: Spring algal bloom and larval fish survival, *Brief communication*, Platt, T, Fuentes-Yaco, C, Frank, K T, **423**, 398
Ecological advice sparks sea change in judicial opinion, *News*, Dalton, R, **424**, 603
marine ecosystems, Coral Reef Fishes: Diversity and Dynamics in a Complex Ecosystem, Sale, P, *Book review by* Bshary, R, **421**, 317
Rapid worldwide depletion of predatory fish communities, *Letter to Nature*, Myers, R A, Worm, B, **423**, 280
Lack of concern deepens the oceans' problems, *Correspondence*, Kochin, B F, Levin, P S, **424**, 723
In a Perfect Ocean, Pauly, D, Maclean, J, *Book review by* Shepherd, J, **425**, 125
The evolutionary inheritance of elemental stoichiometry in marine phytoplankton, *Letter to Nature*, Quigg, A, Finkel, Z V, Irwin, A J, Rosenthal, Y, Ho, T-Y, Reinfelder, J R, Schofield, O, Morel, F M M, Falkowski, P G, **425**, 291
Doubts swirl around plan to use rigs as reefs, *News*, Mason, B, **425**, 891
marine mammals, Biologists call for tracking as mammal numbers dive, *News*, Dalton, R, **424**, 715
marine science, Robots in the deep, *News feature*, Clarke, T, **421**, 468
marine sediments, Global change: Monsoon linkages, *News and views*, Zahn, R, **421**, 324
marker-assisted selection, A recipe revolution, *News feature*, Cyranoski, D, **422**, 796
Markham, Alex, Molecular medic to lead cancer research giant, *News in brief*, **423**, 794
Mars, Planetary science: Volcanism or aqueous alteration on Mars?, *Brief communication*, Hamilton, V E, Christensen, P R, Bandfield, J L, **421**, 711
Reply: Planetary science: Volcanism or aqueous alteration on Mars?, *Brief communication*, Wyatt, M B, McSween Jr, H Y, **421**, 712
Formation of recent Martian gullies through melting of extensive water-rich snow deposits, *Letter to Nature*, Christensen, P R, **422**, 45
NASA homes in on sites for Mars exploration, *News*, Reichhardt, T, **422**, 653
France purges space programme in bid to survive budget crisis, *News*, Butler, D, **423**, 103
Mars attracts!, *News feature*, Giles, J, **423**, 473
Fantastic journeys, *News feature*, **423**, 474
Are you on board?, *News feature*, Butler, D, **423**, 476
The comeback kids, *News feature*, Reichhardt, T, **423**, 477
Astronomers try to save Mars probe, *News*, Cyranoski, D, **424**, 6
Mars: The devil is in the dust, *News and views*, Leovy, C B, **424**, 1008
Japan sees red-planet mission end in failure, *News in brief*, **426**, 747
Mars, climate, Planetary science: Icy martian mysteries, *News and views*, Baker, V R, **426**, 779
Recent ice ages on Mars, *Article*, Head, J W, Mustard, J F, Kreslavsky, M A, Milliken, R E, Marchant, D R, **426**, 797
mass extinction, Geologists seek to put an end to blind dates, *News*, Clarke, T, **425**, 550
mass spectrometry, Shimadzu sees sales rise after Nobel prize, *News in brief*, **421**, 306
From genomics to proteomics, *Insight overview*, Tyers, M, Mann, M, **422**, 193
Mass spectrometry-based proteomics, *Insight review article*, Aebersold, R, Mann, M, **422**, 198
massacres, Congo massacre probe enlists forensic team, *News in brief*, **422**, 794
massive astrophysical compact halo objects (MACHOs), Astronomy: Hot gas around the Galaxy, *News and views*, Sternberg, A, **421**, 708
The dark side, *News and views feature*, Fukugita, M, **422**, 489
MASwheat, A dying breed, *News feature*, Knight, J, **421**, 568
Classical plant breeding is the route to food security, *Correspondence*, Thro, A M, Zankowski, P, **422**, 559
materials, Materials: Ultrahard polycrystalline diamond from graphite, *Brief communication*, Irifune, T, Kurio, A, Sakamoto, S, Inoue, T, Sumiya, H, **421**, 599
materials chemistry, Materials chemistry: Diamonds from dry ice, *News and views*, Ball, P, **424**, 740
materials science, Materials science: Bursting apart, *News and views*, Kadanoff, L P, **421**, 124
Granular materials: Nut theory gets a shakedown, *News and views*, Ball, P, **421**, 331
Logarithmic rate dependence of force networks in sheared granular materials, *Letter to Nature*, Hartley, R R, Behringer, R P, **421**, 928
Materials science: Mind the gap, *News and views*, Morris, J, **422**, 674
Optics: Positively negative, *News and views*, Pendry, J, **423**, 22
Materials science: Memories made in microstructure, *News and views*, Lobo, C, **423**, 30
Biomaterials: Size matters, *News and views*, Ball, P, **423**, 238
Measurement of the displacement field of dislocations to 0.03 Å by electron microscopy, *Letter to Nature*, Hytch, M J, Putaux, J-L, Penisson, J-M, **423**, 270
Reticular synthesis and the design of new materials, *Review article*, Yaghi, O M, O'Keeffe, M, Ockwig, N W, Chae, H K, Eddaoudi, M, Kim, J, **423**, 705
Materials science: Rings of excitement, *News and views*, Helmer, M, **423**, 818
Synthetic sea shell, *News and views*, Rubner, M, **423**, 925
Materials science: Nanoparticles target tumours, *News and views*, Morris, J, **423**, 935
Materials science: On the straight and narrow, *News and views*, Register, R A, **424**, 378
Epitaxial self-assembly of block copolymers on lithographically defined nanopatterned substrates, *Letter to Nature*, Kim, S O, Solak, H H, Stoykovich, M P, Ferrier, N J, de Pablo, J J, Nealey, P F, **424**, 411

Materials science: The road to diamond wafers, *News and views*, Lee, S T, Lifshitz, Y, **424**, 500
Low-loss hollow-core silica/air photonic bandgap fibre, *Letter to Nature*, Smith, C M, Venkataraman, N, Gallagher, M T, Müller, D, West, J A, Borrelli, N F, Allan, D C, Koch, K W, **424**, 657
Materials science: Molecules squeezed and stroked, *News and views*, Granick, S, Lin, Z, Bae, S C, **425**, 467
Think outside the sandbox, *News feature*, Buchanan, M, **425**, 556
Avoiding the shrink, *Concepts*, Baughman, R H, **425**, 667
Materials science: Zero-expansion plan, *News and views*, Sleight, A, **425**, 674
Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **425**, 702
Ancient materials: Analysis of a pharaonic embalming tar, *Brief communication*, Koller, J, Baumer, U, Kaup, Y, Scmid, M, Weser, U, **425**, 784
Materials science: Close-up on cracks, *News and views*, Fineberg, **426**, 131
Hyperelasticity governs dynamic fracture at a critical length scale, *Article*, Buehler, M J, Abraham, F F, Gao, H, **426**, 141
Low-temperature processing of 'baroplastics' by pressure-induced flow, *Letter to Nature*, Gonzalez-Leon, J A, Acar, M H, Ryu, S-W, Ruzette, A-V G, Mayes, A M, **426**, 424
Synthetic design of crystalline inorganic chalcogenides exhibiting fast-ion conductivity, *Letter to Nature*, Zheng, N, Bu, X, Feng, P, **426**, 428
Corrigendum: Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **426**, 584
Metallurgy: Cost and compromise in alloy engineering, *News and views*, Ball, P, **426**, 618
An off-normal fibre-like texture in thin films on single-crystal substrates, *Letter to Nature*, Detavernier, C, Ozcan, A S, Jordan-Sweet, J, Stach, E A, Tersoff, J, Ross, F M, Lavoie, C, **426**, 641
mathematical oncology, Cancer summed up, *Concepts*, Gatenby, R A, Maini, P K, **421**, 321
mathematics, Resignations rock mathematics institute, *News*, Brumfiel, G, **421**, 303
Cancer summed up, *Concepts*, Gatenby, R A, Maini, P K, **421**, 321
Knots: Mathematics with a Twist, Sossinsky, A, Weiss, G, *Book review by* Stasiak, A, **421**, 479
Sync: The Emerging Science of Spontaneous Order, Strogatz, S, *Book review by* Collins, J J, **422**, 117
Life's work adds up to prize for maths master, *News in brief*, **422**, 552
Mathematics: Regime change in meteorology, *News and views*, Stewart, I, **422**, 571
Poincaré proof adds up to potential payday, *News in brief*, **422**, 794
Watching an IT icon slide into history, *Correspondence*, Cram, W J, **422**, 801
Mathematics institute appoints new number one, *News in brief*, **423**, 108
Mathematics: Conjuring with conjectures, *News and views*, Stewart, I, **423**, 124
Does the proof stack up?, *News feature*, Szpiro, G, **424**, 12
Mathematics: The 24-dimensional greengrocer, *News and views*, Stewart, I, **424**, 895
Computer's ability to verify proof is an illusion, *Correspondence*, Partridge, D, **425**, 121
Kepler's Conjecture: How Some of the Greatest Minds in History Helped Solve One of the Oldest Math Problems in the World, Szpiro, G G, *Book review by* Sloane, N, **425**, 126
African institute ready for meeting of mathematical minds, *News*, Clarke, T, **425**, 228
Prime Obsession: Bernhard Riemann and the Greatest Unsolved Problem in Mathematics, Derbyshire, J, *Book review by* Gowers, W T, **425**, 562
The Music of the Primes: Why an Unsolved Problem in Mathematics Matters, du Sautoy, M, *Book review by* Gowers, W T, **425**, 562
Maths institute planned to meet multiplying demand, *News*, Giles, J, **426**, 594
Mystery remains as journal withdraws paper, *News*, Whitfield, John, **426**, 594
Mathematics get fresh formula for web searches, *News in brief*, **426**, 596
1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761
MathML, Mathematics get fresh formula for web searches, *News in brief*, **426**, 596
mating behaviour, Evolution: The battle between the sexes, *News and views*, Tregenza, T, **423**, 929
Captivity masks inbreeding effects on male mating success in butterflies, *Letter to Nature*, Joron, M, Brakefield, P M, **424**, 191
Birds sing at a higher pitch in urban noise, *Brief communication*, Slabbekoorn, H, Peet, M, **424**, 267
Animal behaviour: Bowerbirds blues, *News and views*, Clarke, T, **424**, 507
Behavioural ecology: Father knows best, *News and views*, Sherman, P W, Neff, B D, **425**, 136
Vision: In the eye of the beholder, *News and views*, Whitfield, J, **425**, 678
Single-gene speciation by left-right reversal, *Brief communication*, Ueshima, R, Asami, T, **425**, 679
Females increase offspring heterozygosity and fitness through extra-pair matings, *Letter to Nature*, Foerster, K, Delhey, K, Johnsen, A, Lifjeld, J T, Kempenaers, B, **425**, 714
Matrigel, The matrix, reinvented, *News feature*, Cyranoski, D, **424**, 870
matrilysin, Immunology: Mobilizing the army, *News and views*, Shapiro, S D, **421**, 223
matrix metalloproteinases, Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
Biomaterials: Take a break, *News and views*, Pilcher, H R, **424**, 507
Cell biology: Tumour jailbreak, *News and views*, Yamada, K M, **424**, 889
matrix metalloproteins, Immunology: Mobilizing the army, *News and views*, Shapiro, S D, **421**, 223
Mauna Loa volcano, Interaction between Kilauea and Mauna Loa, *Brief communication*, Miklius, A, Cervelli, P, **421**, 229
Maupertuis, Pierre-Louis Moreau de, The Man Who Flattened the Earth: Maupertuis and the Sciences in the Enlightenment, Terrall, M, *Book review by* Shapin, S, **423**, 482
Max Planck Society, Max Planck plans double blow to chemistry, *News*, Schiermeier, Q, **422**, 105
Max Planck: closures will damage German science, *Correspondence*, Wasserburg, G J, McKenzie, D P, **422**, 469
Max Planck: cuts were decided years ago, *Correspondence*, Wirsing, B, **422**, 469
Planck makes permanent posts, *News*, Schiermeier, Q, **425**, 441
Germany outs big faith in big guns as science ministry feels pinch, *News*, Schiermeier, Q, **426**, 372
Maxwell, James Clerk, The Man Who Changed Everything: The Life of James Clerk Maxwell, *Book review*, Mahon, B, Maddox, J, **425**, 765
MBK-2 protein, Developmental biology: Protein destruction from egg to embryo, *News and views*, Pilcher, H R, **425**, 364
MCL-1 protein, Development and maintenance of B and T lymphocytes requires antiapoptotic MCL-1, *Letter to Nature*, Opferman, J T, Letal, A, Beard, C, Sorcinelli, M D, Ong, C C, Korsmeyer, S J, **426**, 671
MCM-41, Photocontrolled reversible release of guest molecules from coumarin-modified mesoporous silica, *Letter to Nature*, Mal, N K, Fujiwara, M, Tanaka, Y, **421**, 350
MDC1 protein, MDC1 is required for the intra-S-phase DNA damage checkpoint, *Letter to Nature*, Goldberg, M, Stucki, M, Falck, J, D'Amours, D, Rahman, D, Pappin, D, Bartek, J, Jackson, S P, **421**, 952
MDC1 is coupled to activated CHK2 in mammalian DNA damage response pathways, *Letter to Nature*, Lou, Z, Minter-Dykhouse, K, Wu, X, Chen, J, **421**, 957
MDC1 is a mediator of the mammalian DNA damage checkpoint, *Letter to Nature*, Stewart, G S, Wang, B, Bignell, C R, Taylor, A M R, Elledge, S J, **421**, 961
***mdr* mutants**, Enhanced gravi- and phototropism in plant *mdr* mutants mislocalizing the auxin efflux protein PIN1, *Letter to Nature*, Noh, B, Bandyopadhyay, A, Peer, W A, Spalding, E P, Murphy, A S, **423**, 999
Médecins Sans Frontières, Raiding the medicine cabinet, *News feature*, Butler, D, **424**, 10
measurement, Measuring America: How an Untamed Wilderness Shaped the United States and Fulfiled the Promise of Democracy, Linklater, A, *Book review by* Pyenson, L, **421**, 211
The Measure of All Things: The Seven-Year Odyssey and Hidden Error that Transformed the World, Alder, K, *Book review by* Pyenson, L, **421**, 211
Measure for Measure: The Story of Imperial, Metric, and Other Units, Hebra, A, *Book review by* Lindley, D, **425**, 903
meat, illegal imports, 'Low risk' of infection from smuggled meat, *News in brief*, **422**, 366
mechanical oscillator, Nanometre-scale displacement sensing using a single electron transistor, *Letter to Nature*, Knobel, R G, Cleland, A N, **424**, 291
mechanics, Mechanics: Friction in spin, *News and views*, Halsey, T C, **424**, 1005
Feynman put a personal spin on physics, *Correspondence*, Nickalls, R W D, **425**, 343
mechanoisomerization, Quantum Chemistry: At full stretch, *News and views*, Ball, P, **423**, 598
mechanoreceptors, Ion channels: Hearing aid, *News and views*, Dumont, R A, Gillespie, P G, **424**, 28
media, Bringing down the barriers, *Commentary*, Willems, J, **422**, 470
Television review: Walking with Cavemen, Dale, R, *Book review by* Gamble, C, **422**, 473
A calm view of video violence, *Opinion*, **424**, 355
Playing with fire?, *News feature*, Reichhardt, T, **424**, 367
Media Lab Asia, MIT pulls out of Asian Media Lab in argument over rule, *News*, Jayaraman, K S, **423**, 213
Medical Research Council (UK)
Cold Wars: The Fight Against the Common Cold, Tyrrell, D, Fielder, M, *Book review by* Dimmock, N, **422**, 379
Report fuels criticism of UK research council, *News*, McDowell, N, **422**, 461
Communication breakdown, *Opinion*, **422**, 545
Medical council pins hopes on public advocate of science, *News*, Giles, J, **423**, 211
Protests win reprieve for renowned medical lab, *News*, Giles, J, **423**, 573
MRC planning outweighs excellence in science, *Correspondence*, Staynov, D, **423**, 918
medical technology, Medical technology: Balancing the unbalanced, *News and views*, Moss, F, Milton, J G, **425**, 911
medicine, Feature: The double helix in clinical practice, *Feature*, Bell, J I, **421**, 414
Toxicology rethinks its central belief, *Commentary*, Calabrese, E J, Baldwin, L A, **421**, 691
Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
Loss of integrin αvβ6-mediated TGF-β activation causes Mmp12-dependent emphysema, *Letter to Nature*, Morris, D G, Huang, X, Kaminski, N, Wang, Y, Shapiro, S D, Dolganov, G, Glick, A, Sheppard, D, **422**, 169
Medicine: Collateral damage repaired, *News and views*, Steinman, L, **422**, 671
Injection of adult neurospheres induces recovery in a chronic model of multiple sclerosis, *Article*, Pluchino, S, Quattrini, A, Brambilla, E, Gritti, A, Salani, G, Dina, G, Galli, R, Del Carro, U, Amadio, S, Bergami, A, Furlan, R, Comi, G, Vescovi, A L, Martino, G, **422**, 688
Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II, Surgenor, D M, *Book review by* Tanford, C, Reynolds, J, **423**, 224
Magnetic pioneers net Nobel for putting medicine in the picture, *News*, Pearson, H, **425**, 547
Physician launches public protest over medical Nobel, *News*, Pearson, H, **425**, 648
Medicine: Cancer-killing virus on a drip, *News and views*, Heemels, M-T, **426**, 28
Medicine: Virus offers life support to cancer, *News and views*, Heemels, M-T, **426**, 242
Medicine: Taking apart a cancer protein, *News and views*, Scaglioni, P P, Pandolfi, P P, **426**, 512
medicine, personalized, With your genes? Take one of these, three times a day, *News feature*, Abbott, A, **425**, 760
Medieval Warm Period, Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean, *Letter to Nature*, Gupta, A K, Anderson, D M, Overpeck, J T, **421**, 354
Mediterranean Sea, Deep roots in Messinian salinity crisis, *Letter to Nature*, Duggen, S, Hoernle, K, van den Bogaard, P, Rupke, L, Phipps Morgan, J, **422**, 602
megafossils, Fragments of the earliest land plants, *Letter to Nature*, Wellman, C H, Osteloff, P L, Mohiuddin, U, **425**, 282
MegaPrime camera, Smile, it's the world's biggest digital camera, *News in brief*, **422**, 654
MEL-26 protein, The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase, *Letter to Nature*, Pintard, L, Willis, J H, Willems, A, Johnson, J-L F, Srayko, M, Kurz, T, Glaser, S, Mains, P E, Tyers, M, Bowerman, B, Peter, M, **425**, 311
melanopsin, Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice, *Letter to Nature*, Hattar, S, Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W, **424**, 76
Melino, Gerry, A thirst for knowledge — Gerry Melino, *Lifelines*, **421**, 697
membrane curvature, Membrane trafficking: Coat control by curvature, *News and views*, Lippincott-Schwartz, J, Liu, W, **426**, 507
Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature, *Letter to Nature*, Bigay, J, Gounon, P, Robineau, S, Antonny, B, **426**, 563
membrane proteins, Membrane proteins: Channel voyager makes waves, *News feature*, Abbott, A, **426**, 755
Evolutionary conservation of biogenesis of β-barrel membrane proteins, *Letter to Nature*, Paschen, S A, Waizenegger, T, Stan, T, Preuss, M, Cyrklaff, M, Hell, K, Rapaport, D, Neupert, W, **426**, 862
membrane trafficking, Membrane trafficking: Coat control by curvature, *News and views*, Lippincott-Schwartz, J, Liu, W, **426**, 507
Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature, *Letter to Nature*, Bigay, J, Gounon, P, Robineau, S, Antonny, B, **426**, 563
membranes, Imaging coexisting fluid domains I biomembrane models coupling curvature and line tension, *Letter to Nature*, Baumgart, T, Hess, S T, Webb, W W, **425**, 821
memes, Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution, Shennan, S, *Book review by* Bettinger, R L, **422**, 20
memory, Conservation of total synaptic weight through balanced synaptic depression and potentiation, *Letter to Nature*, Royer, S, Paré, D, **422**, 518
Memory From A to Z, Dudai, Y, *Book review by* Squire, L R, **423**, 119
Glutamate-receptor-mediated encoding and retrieval of paired-associate learning, *Letter to Nature*, Day, M, Langston, R, Morris, R G M, **424**, 205
Neurobiology: Caught in the act, *News and views*, Dudai, Y, **424**, 377
Neuroscience: How to forget, *News and views*, Pilcher, H H, **424**, 1011
Neuroscience: Re-recording human memories, *News and views*, Nader, K, **425**, 571
Dissociable stages of human memory consolidation and reconsolidation, *Letter to Nature*, Walker, M P, Brakefield, T, Hobson, J A, Stickgold, R, **425**, 616
menopause, Endocrinology: Bone adaptation requires oestrogen receptor-α, *Brief communication*, Lee, K, Jessop, H, Suswillo, R, Zaman, G, Lanyon, L, **424**, 389
mental illness, The Confinement of the Insane: International Perspectives, 1800–1965, Porter, R, Wright, D, *Book review by* Grob, G N, **426**, 230
mental self, The person within, *Concepts*, Damasio, A, **423**, 227
mentoring, In praise of good mentors, *Opinion*, **422**, 359
mercury, Biogeochemistry: Heavy metal out of air, *News and views*, Lincoln, T, **423**, 395

  Japan joins Europe's bid to get Bepi Colombo to Mercury, *News in brief*, **424**, 8
merged molecules, Two teams make quantum leap in quest for merged molecules, *News in brief*, **426**, 220
mesenchymal stem cells, Repository to nurture standard stem cells, *News in brief*, **424**, 9
mesons, Collision debris yields five-quark particle, *News*, Cyranoski, D, **424**, 7
  Particle physics: Strange days, *News and views*, Close, F, **424**, 376
mesoscale convective systems, Airborne lab crews hope study will go down a storm, *News in brief*, **423**, 214
mesoscopic particles, Asymmetric pores in a silicon membrane acting as massively parallel brownian ratchets, *Letter to Nature*, Matthias, S, Müller, F, **424**, 53
messenger RNA, Crystal structure of the transfer-RNA domain of transfer-messenger RNA in complex with SmpB, *Letter to Nature*, Gutmann, S, Haebel, P W, Metzinger, L, Sutter, M, Felden, B, Ban, N, **424**, 699
  Cell biology: Enlightened messages, *News and views*, Thomas, C, **426**, 27
  Addendum: An expressed pseudogene regulates the messenger-RNA stability of its homologous coding gene, *Letter to Nature*, Hirotsune, S, Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A, **426**, 100
  Retraction: Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Letter to Nature*, Kawasaki, H, Taira, K, **426**, 100
Messinian salinity crisis, Deep roots in Messinian salinity crisis, *Letter to Nature*, Duggen, S, Hoernle, K, van den Bogaard, P, Rupke, L, Phipps Morgan, J, **422**, 602
metabolic rate, Physiology: Why does metabolic rate scale with body size, *Brief communication*, West, G B, Savage, V M, Gillooly, J, Enquist, B J, Woodruff, W H, Brown, J H, **421**, 713
metabolism, Scaling metabolism from organisms to ecosystems, *Letter to Nature*, Enquist, B J, Economo, E P, Huxman, T E, Allen, A P, Ignace, D D, Gillooly, J F, **423**, 639
  Metabolism: It's in the genes, *News and views*, Furness, R W, **425**, 779
  Metabolism: Ecology shapes bird bioenergetics, *Brief communication*, McNab, B K, **426**, 620
metabotropic glutamate receptors, Activation of the TRPC1 cation channel by metabotropic glutamate receptor mGluR1, *Letter to Nature*, Kim, S J, Kim, Y S, Yuan, J P, Petralia, R S, Worley, P F, Linden, D J, **426**, 285
metal oxides, Superconductivity in two-dimensional CoO$_2$ layers, *Letter to Nature*, Takada, K, Sakurai, H, Takayama-Muromachi, E, Izumi, F, Dilanian, R A, Sasaki, T, **422**, 53
metal-organic frameworks, Reticular synthesis and the design of new materials, *Review article*, Yaghi, O M, O'Keeffe, M, Ockwig, N W, Chae, H K, Eddaoudi, M, Kim, J, **423**, 705
metal–insulator transitions, Retraction: Metal-insulator transition in chains with correlated disorder, *Letter to Nature*, Carpena, P, Bernaola-Galvan, P, Ivanov, P Ch, Stanley, H E, **421**, 764
metallurgy, Metallurgy: Bend it, shape it, *News and views*, Ball, P, **422**, 829
  Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Meng, Q, Frankel, G S, Colijn, H O, Goss, S H, **424**, 389
  Reply: Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Ryan, M P, Williams, D E, Chater, R J, Hutton, B M, McPhail, D S, **424**, 390
  Metallurgy: Cost and compromise in alloy engineering, *News and views*, Ball, P, **426**, 618
metals, Astrophysics: How did the metals in a giant star originate, *Brief communication*, Bonifacio, P, Limongi, M, Chieffi, A, **422**, 834
  The elemental abundance pattern in a galaxy at $z = 2.626$, *Letter to Nature*, Prochaska, J X, Howk, J C, Wolfe, A M, **423**, 57
  Creep-strengthening of steel at high temperatures using nano-sized carbonitride dispersions, *Letter to Nature*, Taneike, M, Abe, F, Sawada, K, **424**, 294
  Archaeology: The dating game, *News and views*, Lincoln, T, **424**, 898
  Fermi-liquid breakdown in the paramagnetic phase of a pure metal, *Letter to Nature*, Doiron-Leyraud, N, Walker, I R, Taillefer, L, Steiner, M J, Julian, S R, Lonzarich, G G, **425**, 595
  A coherent three-dimensional Fermi surface in a high-transition-temperature superconductor, *Letter to Nature*, Hussey, N E, Abdel-Jawad, M, Carrington, A, MacKenzie, A P, Balicas, L, **425**, 814
  Condensed-matter physics: Illuminating behaviour, *News and views*, Bockrath, M, **426**, 511
metamaterials, Three-dimensional binary superlattices of magnetic nanocrystals and semiconductor quantum dots, *Letter to Nature*, Redl, F X, Cho, K-S, Murray, C B, O'Brien, S, **423**, 968
metapneumovirus, Researchers get to grips with cause of pneumonia epidemic, *News*, Knight, J, **422**, 547
metastases, Cancer: Out of air is not out of action, *News and views*, Bottaro, D P, Liotta, L A, **423**, 593
  Cancer: From breast to bone, *News and views*, Pilcher, H R, **424**, 143
  Cancer: Cues for migration, *News and views*, Bernards, R, **425**, 247
meteorites, No reduction in risk of a massive asteroid impact, *Correspondence*, Chapman, C R, Morrison, D, **421**, 473
  Planetary science: The core of planet formation, *News and views*, Minarik, B, **422**, 126
  Core formation in planetesimals triggered by permeable flow, *Letter to Nature*, Yoshino, T, Walter, M J, Katsura, T, **422**, 154
  Planetary science: Of asteroids and onions, *News and views*, Wood, J A, **422**, 479
  Catch a falling star, *News and views*, Drummond, J, **423**, 123
  Photographic observations of Neuschwanstein, a second meteorite from the orbit of the Příbram chondrite, *Letter to Nature*, Spurný, P, Oberst, J, Heinlein, D, **423**, 151
  A questioning of timing, *News and views*, Alexander, C, **423**, 691
  Efficient disruption of small asteroids by Earth's atmosphere, *Letter to Nature*, Bland, P A, Artemieva, N A, **424**, 288
  Efficient mixing of the solar nebula from uniform Mo isotopic composition of meteorites, *Letter to Nature*, Becker, H, Walker, R J, **425**, 152
  Planetary science: Less of an impact, *News and views*, Mason, B, **425**, 573
meteorites, impacts, Meteorite impacts: Dinosaurs were not roasted, *News and views*, Ball, P, **426**, 618
meteorology, Meteorology: Getting the wind up, *News and views*, Langenberg, H, **422**, 273
  Mathematics: Regime change in meteorology, *News and views*, Stewart, I, **422**, 571
  Cities' response to attack hampered by unknown airflow, *News in brief*, **423**, 676
  Welcome to the Anthropocene, *Opinion*, **424**, 709
  Meteorology: Oscillating eyes, *News and views*, Clarke, T, **425**, 253
meteors, Fireball photo sparks explosion of debate, *News in brief*, **425**, 653
  Meteors: Parallel lines, *News and views*, Ball, P, **426**, 784
methamphetamine, Agony for researchers as mix-up forces retraction of ecstasy study, *News*, Knight, J, **425**, 109
methane, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28
  Gas leak!, *News feature*, Schiermeier, Q, **423**, 681
  Biological activity in the deep subsurface and the origin of heavy oil, *Insight review article*, Head, I M, Jones, D M, Larter, S R, **426**, 344
methane, anaerobic oxidation, A conspicuous nickel protein in microbial mats that oxidize methane anerobically, *Letter to Nature*, Kruger, M, Meyerdierks, A, Glockner, F O, Amann, R, Widdel, F, Kube, M, Reinhardt, R, Kahnt, J, Bocher, R, Thauer, R K, Shima, S, **426**, 878
methane seeps, Stable isotopic evidence for methane seeps in Neoproterozoic postglacial cap carbonates, *Letter to Nature*, Jiang, G, Kennedy, M J, Christie-Blick, N, **426**, 822
methyl chloroform, Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
***N*-methyl-D-aspartate receptors**, Glycine binding primes NMDA receptor internalization, *Letter to Nature*, Nong, Y, Huang, Y-Q, Ju, W, Kalia, L V, Ahmadian, G, Wang, Y T, Salter, M W, **422**, 302
methylenetetrahydrofolate reductase, Cancer: Genetic prescription, *News and views*, Carlsson, C, **423**, 496
metric system, The Measure of All Things: The Seven-Year Odyssey and Hidden Error that Transformed the World, Alder, K, *Book review by* Pyenson, L, **421**, 211
Mexico, Tracking the first Americans, *News and views*, Dillehay, T D, **425**, 23
micelles, Self-organization of dissolved organic matter to micelle-like microparticles in river water, *Letter to Nature*, Kerner, M, Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A, **422**, 150
Michelangelo, Sculpture: Breaking with tradition, *Book review*, Abbott, A, **425**, 19
micro-irrigation, How to slake a planet's thirst, *Opinion*, **422**, 242
microacoustics, Controlled vesicle deformation and lysis by single oscillating bubbles, *Letter to Nature*, Marmottant, P, Hilgenfeldt, S, **423**, 153
microarrays, Sugars tied to the spot, *News and views*, Flitsch, S L, Ulijn, R V, **421**, 219
  Developmental biology: Tools for single-cell analysis, *News and views*, Pilcher, H R, **422**, 275
  Legal row looms for gene-map firm, *News*, Dalton, R, **423**, 470
  Microfluidics: DNA microarrays get the shakers, *News and views*, Ball, P, **423**, 496
  DNA-chip firm backs down over upgrade, *News*, Whitfield, J, **424**, 119
  Ageing: Microarraying mortality, *News and views*, Gems, D, McElwee, J J, **424**, 259
  Genes that act downstream of DAF-16 to influence the lifespan of *Caenorhabditis elegans*, *Article*, Murphy, C T, McCarroll, S A, Bargmann, C I, Fraser, A, Kamath, R S, Ahringer, J, Li, H, Kenyon, C, **424**, 277
  Companies vie to put all your genes on a chip, *News*, Dennis, C, **424**, 605
  Vital statistics, *News feature*, Tilstone, C, **424**, 610
microbes, Branching out, *Concepts*, Charlebois, R L, Beiko, R G, Ragan, M A, **421**, 217
  Impossible Extinction: Natural Catastrophes and the Supremacy of the Microbial World, Cockell, C C, *Book review by* Sleep, N H, **422**, 663
  Microbial pathogenesis and cytoskeletal function, *Insight review article*, Gruenheid, S, Finlay, B B, **422**, 775
microbial biofilms, Contributions of microbial biofilms to ecosystem processes in stream mesocosms, *Letter to Nature*, Battin, T J, Kaplan, L A, Newbold, J D, Hansen, C M E, **426**, 439
microbial loop, Self-organization of dissolved organic matter to micelle-like microparticles in river water, *Letter to Nature*, Kerner, M, Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A, **422**, 150
microbial mats, A conspicuous nickel protein in microbial mats that oxidize methane anerobically, *Letter to Nature*, Kruger, M, Meyerdierks, A, Glockner, F O, Amann, R, Widdel, F, Kube, M, Reinhardt, R, Kahnt, J, Bocher, R, Thauer, R K, Shima, S, **426**, 878
microbiology, Microbiology: Gut defence, *News and views*, Ganz, T, **422**, 478
  Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin, *Letter to Nature*, Salzman, N H, Ghosh, D, Huttner, K M, Paterson, Y, Bevins, C L, **422**, 522
  Microbiology: Flab control, *News and views*, Heemels, M-T, **423**, 395
  Microbiology: Prion as passport, *News and views*, Clarke, T, **424**, 385
  Microbiology: Aspirin bites at bugs, *News and views*, Pearson, H, **424**, 507
  Here, there and everywhere, *Opinion*, **425**, 107
  Handle with care, *Opinion*, **426**, 1
  Microbiology: Destructive approach, *News and views*, Tromans, A, **426**, 23
  Pioneers of Microbiology and the Nobel Prize, Lagerkvist, U, *Book review by* Bynum, W F, **426**, 604
microchips, Microelectronics: Clean-up for copper chips, *News and views*, Ball, P, **422**, 677
microelectromechanical systems, Rotational actuators based on carbon nanotubes, *Letter to Nature*, Fennimore, A M, Yuzvinsky, T D, Han, W-Q, Fuhrer, M S, Cumings, J, Zettl, A, **424**, 408
microelectronics, Nanotechnology: Dendritic lasers, *News and views*, Ball, P, **422**, 577
  Microelectronics: Clean-up for copper chips, *News and views*, Ball, P, **422**, 677
  Electronics: Nanotechnology goes large, *News and views*, Gerstner, E, **425**, 244
  Organic electronics: Carbon makes contact, *News and views*, Ball, P, **426**, 242
  Polymer chemistry: Plastic wrap for nanocircuits, *News and views*, Ball, P, **426**, 402
microenvironment, Stem cells: Interactive niches, *News and views*, Lemischka, I R, Moore, K A, **425**, 778
microfluid systems, Microfluid systems: High radial acceleration in microvortices, *Brief communication*, Shelby, J P, Lim, D S W, Kuo, J S, Chiu, D T, **425**, 38
microfluidics, Microfluidics: DNA amplification moves on, *News and views*, deMello, A J, **422**, 28
  Microfluidics: Traffic flow, *News and views*, Helmer, M, **423**, 238
  Microfluidics: DNA microarrays get the shakers, *News and views*, Ball, P, **423**, 496
  Microfluidic sorting in an optical lattice, *Letter to Nature*, MacDonald, M P, Spalding, G C, Dholakia, K, **426**, 421
  On-chip manipulation of free droplets, *Brief communication*, Velev, O D, Prevo, B G, Bhatt, K H, **426**, 515
microfossils, High CO$_2$ levels in the Proterozoic atmosphere estimated from analyses of individual microfossils, *Letter to Nature*, Kaufman, A J, Xiao, S, **425**, 279
  Fragments of the earliest land plants, *Letter to Nature*, Wellman, C H, Osteloff, P L, Mohiuddin, U, **425**, 282
microlenses, Optical physics: Voltage manoeuvres on a microlens, *News and views*, Ball, P, **421**, 493
microlithography, Astronomy: Black holes, fleas and microlithography, *Brief communication*, Skinner, G, Gorenstein, P, **426**, 245
micrometeorites, Interplanetary dust from the explosive dispersal of hydrated asteroids by impacts, *Letter to Nature*, Tomeoka, K, Kiriyama, K, Nakamura, K, Yamahana, Y, Sekine, T, **423**, 60
microorganisms, Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Stark, J M, Hart, S C, **423**, 137
  Reply: Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Johnson, D, Campbell, C D, Lee, J A, Callaghan, T V, Gwynn-Jones, D, **423**, 138
microphotonics, Microphotonics: Tiny laser notches up success, *News and views*, Ball, P, **425**, 143
  Subwavelength-diameter silica wires for low-loss optical wave guiding, *Letter to Nature*, Tong, L, Gattass, R R, Ashcom, J B, He, S, Lou, J, Shen, M, Maxwell, I, Mazur, E, **426**, 816
microRNA, Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Article*, Kawasaki, H, Taira, K, **423**, 838
  Developmental biology: Control stems from microRNAs, *News and views*, Pearson, H, **424**, 898
  Molecular biology: MicroRNA is here to stay, *News and views*, Benfrey, P N, **425**, 244
  Control of leaf morphogenesis by microRNAs, *Article*, Palatnik, J F, Allen, E, Wu, X, Schommer, C, Schwab, R, Carrington, J C, Weigel, D, **425**, 257
  The nuclear RNase III Drosha initiates microRNA processing, *Letter to Nature*, Lee, Y, Ahn, C, Han, J, Choi, H, Kim, J, Yim, J, Lee, J, Provost, P, Radmark, O, Kim, S, Kim, V N, **425**, 415
  A microRNA controlling left/right neuronal asymmetry in *Caenorhabditis elegans*, *Letter to Nature*, Johnston, R J, Hobert, O, **426**, 845
microscopy, Microscopy: Nanoscience in ribbons, *News and views*, Ball, P, **423**, 134
  Microscopy: High-speed movies in miniature, *News and views*, Ball, P, **424**, 265
microspheres, Materials science: Rings of excitement, *News and views*, Helmer, M, **423**, 818
microtubules, The cytoskeleton, cellular motility and the reductionist agenda, *Insight overview*, Pollard, T D, **422**, 741
  Cell division, *Insight review article*, Scholey, J M, Brust-Mascher, I, Mogilner, A, **422**, 746
  Dynamics and mechanics of the microtubule plus end, *Insight review article*, Howard, J, Hyman, A A, **422**, 753

Fission yeast mod5p regulates polarized growth through anchoring of tea1p at cell tips, *Letter to Nature*, Snaith, H A, Sawin, K E, **423**, 647
Neurobiology: Motor proteins branch out, *News and views*, Tromans, A, **424**, 503
Determining the position of the cell division plane, *Letter to Nature*, Canman, J C, Cameron, L A, Maddox, P S, Straight, A, Tirnauer, J S, Mitchison, T J, Fang, G, Kapoor, T M, Salmon, E D, **424**, 1074
Biophysics: Take the intracellular train, *News and views*, Helmer, M, **425**, 140
microvortices, Microfluid systems: High radial acceleration in microvortices, *Brief communication*, Shelby, J P, Lim, D S W, Kuo, J S, Chiu, D T, **425**, 38
microwaves, Out of the kitchen, *News feature*, Adam, D, **421**, 571
Surface science: What's cooking?, *News and views*, Daw, R, **425**, 34
Microwave oscillations of a nanomagnet driven by a spin-polarized current, *Letter to Nature*, Kiselev, S I, Sankey, J C, Krivorotov, I N, Emley, N C, Schoelkopf, R J, Buhrman, R A, Ralph, D C, **425**, 380
Mid-Atlantic Ridge, Earth science: A slice of history, *News and views*, Asimow, P D, **423**, 491
Mantle thermal pulses below the Mid-Atlantic Ridge and temporal variations in the formation of oceanic lithosphere, *Article*, Bonatti, E, Ligi, M, Brunelli, D, Cipriani, A, Fabretti, P, Ferrante, V, Gasperini, L, Ottolini, L, **423**, 499
An ultraslow-spreading class of ocean ridge, *Article*, Dick, H J B, Lin, J, Schouten, H, **426**, 405
See also **mid-ocean ridges**
Mid-Infrared Instrument (MIRI), Astronomers urge NASA not to cut corners on Hubble successor, *News*, Reichhardt, T, **422**, 3
mid-ocean ridges, Earth science: A slice of history, *News and views*, Asimow, P D, **423**, 491
Mantle thermal pulses below the Mid-Atlantic Ridge and temporal variations in the formation of oceanic lithosphere, *Article*, Bonatti, E, Ligi, M, Brunelli, D, Cipriani, A, Fabretti, P, Ferrante, V, Gasperini, L, Ottolini, L, **423**, 499
Earth science: Spread thin in the Arctic, *News and views*, Klein, E M, **423**, 932
Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel Ridge, Arctic Ocean, *Article*, Michael, P J, Langmuir, C H, Dick, H J B, Snow, J E, Goldstein, S L, Graham, D W, Lehnert, K, Kurras, G, Jokat, W, Muhe, R, Edmonds, H N, **423**, 956
Geophysical evidence for reduced melt production on the Arctic ultraslow Gakkel mid-ocean ridge, *Letter to Nature*, Jokat, W, Ritzmann, O, Schmidt-Aursch, M C, Drachev, S, Gauger, S, Snow, J, **423**, 962
Interaction of sea water and lava during submarine eruptions at mid-ocean ridges, *Letter to Nature*, Perfit, M R, Cann, J R, Fornari, D J, Engels, J, Smith, D K, Ridley, W I, Edwards, M H, **426**, 62
Earth science: The ultraslow difference, *News and views*, Phipps Morgan, J, **426**, 401
An ultraslow-spreading class of ocean ridge, *Article*, Dick, H J B, Lin, J, Schouten, H, **426**, 405
Middle America trench, Bending-related faulting and mantle serpentinization at the Middle America trench, *Article*, Ranero, C R, Phipps Morgan, J, McIntosh, K, Reichert, C, **425**, 367
Middle East, Middle East: a picture is worth a thousand words, *Correspondence*, Bigman, J, **425**, 899
Middle East: trying to break down the barriers, *Correspondence*, Ali, B R, **425**, 899
Middle East: nothing to fear except terrorism, *Correspondence*, Cohen, J S, **426**, 227
Middle East: university funding for Palestinians, *Correspondence*, Agmon, N, **426**, 227
Middle Miocene period, A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61
Middle Pleistocene period, Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic, *Letter to Nature*, Barkai, R, Gopher, A, Lauritzen, S E, Frumkin, A, **423**, 977
Midori-II satellite, Satellite loss throws Japan's space programme into disarray, *News*, Cyranoski, D, **426**, 3
migration, Climate change: The earlier bird, *News and views*, van Noordwijk, A J, **422**, 29
Avian metabolism: Costs of migration in free-flying songbirds, *Brief communication*, Wikelski, M, Tarlow, E M, Raim, A, Diehl, R H, Larkin, R P, Visser, G H, **423**, 704
Strong population substructure is correlated with morphology and ecology in a migratory bat, *Letter to Nature*, Miller-Butterworth, C M, Jacobs, D S, Harley, E H, **424**, 187
Physiology: Fast food, *News and views*, Whitfield, J, **426**, 136
military, Report backs military axis on space, *News*, Butler, D, **421**, 301
US army survey targets Gulf War syndrome, *News*, Knight, J, **421**, 463
Europe seeks single defence research agency, *News*, Schiermeier, Q, **421**, 465
US Army plans assault on biotech frontline, *News in brief*, **422**, 106
Europe told to unite on spy satellites, *News*, Schiermeier, Q, **422**, 361
Analysts seek proof of military precision, *News*, Brumfiel, G, **422**, 362
Hope for best, prepare for worst, *Opinion*, **423**, 101
US Army joins hunt for SARS drug, *News*, Abbott, A, **423**, 103
Why should we help politicians to wage war?, *Correspondence*, Amit, D, **423**, 683
Silence of the neuroengineers, *Opinion*, **423**, 787
US army attacked over published patent for 'bioweapons grenade', *News*, Check, E, **423**, 789
Remote control, *News feature*, Hoag, H, **423**, 796
Anger mounts over cutbacks at US army pathology lab, *News*, Check, E, **424**, 4
Military: brain machine could benefit millions, *Correspondence*, Rudolph, A, **424**, 369
Military-funded research is not unethical, *Correspondence*, Rizzuto, D S, Breznen, B, Greger, B, **424**, 369
Universities armed with cash for biotechnology, *News in brief*, **425**, 9
European Commission dips toe into military research, *News*, Willerroider, M, **425**, 549
Standards-lab staff up in arms over military link, *News*, Giles, J, **425**, 754
United States and India forge military research deal, *News in brief*, **426**, 488
milk, Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Schroeter, H, Holt, R R, Orozco, T J, Schmitz, H H, Keen, C L, **426**, 787
Reply: Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Serafini, M, Crozier, A, **426**, 788
Milky Way, Astronomy: Hot gas around the Galaxy, *News and views*, Sternberg, A, **421**, 708
The far-ultraviolet signature of the 'missing' baryons in the Local Group of Galaxies, *Letter to Nature*, Nicastro, F, Zezas, A, Elvis, M, Mathur, S, Flore, F, Cecchi-Pestellini, C, Burke, D, Drake, J, Casella, P, **421**, 719
The elemental abundance pattern in a galaxy at $z = 2.626$, *Letter to Nature*, Prochaska, J X, Howk, J C, Wolfe, A M, **423**, 57
An extragalactic supernebula confined by gravity, *Letter to Nature*, Turner, J L, Beck, S C, Crosthwaite, L P, Larkin, J E, McLean, I S, Meier, D S, **423**, 621
The supernova connection, *News and views*, Meszaros, P, **423**, 809
The formation of the first low-mass stars from gas with low carbon and oxygen abundances, *Letter to Nature*, Bromm, V, Loeb, A, **425**, 812
Black holes: Sparks of interest, *News and views*, Narayan, R, **425**, 908
Near-infrared flares from accreting gas around the supermassive black hole at the Galactic Centre, *Letter to Nature*, Genzel, R, Schödel, R, Ott, T, Eckart, A, Alexander, T, Lacombe, F, Rouan, D, Aschenbach, B, **425**, 934
An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system, *Letter to Nature*, Burgay, M, D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R, **426**, 531
The essential signature of a massive starburst in a distant quasar, *Letter to Nature*, Solomon, P, Vanden Bout, P, Carilli, C, Guelin, M, **426**, 636
See also **galaxies**
Millennium Prize Problems, Poincaré proof adds up to potential payday, *News in brief*, **422**, 794
Miller, Chris, Channel hopping — Chris Miller, *Lifelines*, **425**, 564
Miller, Hugh, The Cruise of the Betsy with Rambles of a Geologist, Miller, H, Smout, T C, Taylor, M A, *Book review by* Janvier, P, **426**, 19
mimicry, Escalation of a coevolutionary arms race through host rejection of brood parasitic young, *Letter to Nature*, Langmore, N E, Hunt, S, Kilner, R M, **422**, 157
mind, The Face in the Mirror: The Search for the Origins of Consciousness, Keenan, J, Gallup Jr, G G, Falk, D, *Book review by* Hauser, M, **424**, 15
mineralogy, Ecology: Mycorrhizal weathering in base-poor forests, *Brief communication*, Watmough, S A, Dillon, P J, **423**, 823
Mineralogy: Oresome microbes, *News and views*, Ball, P, **425**, 573
miniature inverted-repeat transposable element (MITE), An active DNA transposon family in rice, *Letter to Nature*, Jiang, N, Bao, Z, Zhang, X, Hirochika, H, Eddy, S R, McCouch, S R, Wessler, S R, **421**, 163
The plant MITE *mPing* is mobilized in anther culture, *Letter to Nature*, Kikuchi, K, Terauchi, K, Wada, M, Hirano, H-Y, **421**, 167
Mobilization of a transposon in the rice genome, *Letter to Nature*, Nakazaki, T, Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T, **421**, 170
mining, Gold-mine conversion eases closer, *News*, Brumfiel, G, **424**, 713
Miocene epoch, Deep roots in Messinian salinity crisis, *Letter to Nature*, Duggen, S, Hoernle, K, van den Bogaard, P, Rupke, L, Phipps Morgan, J, **422**, 602
Mir Space Station, Space travel: Dual origins of light flashes seen in space, *Brief communication*, Casolino, M, Bidoli, V, Moreelli, A, Narici, L, De Pascale, M P, Picozza, P, Reali, E, Sparvoli, R, Mazzenga, G, Ricci, M, Spillantini, P, Boezio, M, Bonvicini, V, Vacchi, A, Zampa, N, Castellini, G, Sannita, W G, Carlson, P, Galper, A, Korotkov, M, Popov, A, Vavilov, N, Avdeev, S, Fuglesang, C, **422**, 680
mirrors, The Face in the Mirror: The Search for the Origins of Consciousness, Keenan, J, Gallup Jr, G G, Falk, D, *Book review by* Hauser, M, **424**, 15
missiles, interceptor, Experts find fault with US plan to intercept missiles at source, *News*, Brumfiel, G, **424**, 240
Mitchell, Peter, Wandering in the Gardens of the Mind: Peter Mitchell and the Making of Glynn, Prebble, J, Weber, B, *Book review by* Slater, E C, **422**, 816
mitochondria, The cost of living, *Concepts*, Rich, P, **421**, 583
Molecular chaperones: Plugging the transport gap, *News and views*, Ellis, R J, **421**, 801
Plant cell biology: Ancients rings, *News and views*, Surridge, C, **422**, 275
Mitochondrial membrane remodelling regulated by a conserved rhomboid protease, *Letter to Nature*, McQuibban, G A, Saurya, S, Freeman, M, **423**, 537
Widespread horizontal transfer of mitochondrial genes in flowering plants, *Letter to Nature*, Bergthorsson, U, Adams, K L, Thomason, B, Palmer, J D, **424**, 197
Cell biology: Moving inside membranes, *News and views*, Mihara, K, **424**, 505
Machinery for protein sorting and assembly in the mitochondrial outer membrane, *Letter to Nature*, Wiedemann, N, Kozjak, V, Chacinska, A, Schönfisch, B, Rospert, S, Ryan, M T, Pfanner, N, Meisinger, C, **424**, 565
Phospholipase Cγ activates Ras on the Golgi apparatus by means of RasGRP1, *Letter to Nature*, Bivona, T G, Pérez de Castro, I, Ahearn, I M, Grana, T M, Chiu, V K, Lockyer, P J, Cullen, P J, Pellicer, A, Cox, A D, Philips, M R, **424**, 694
BAD and glucokinase reside in a mitochondrial complex that integrates glycolysis and apoptosis, *Letter to Nature*, Danial, N N, Gramm, C F, Scorrano, L, Zhang, C-Y, Krauss, S, Ranger, A M, Datta, S R, Greenberg, M E, Licklider, L J, Lowell, B B, Gygi, S P, Korsmeyer, S J, **424**, 952
Suppression of CED-3-independent apoptosis by mitochondrial βNAC in *Caenorhabditis elegans*, *Letter to Nature*, Bloss, T A, Witze, E S, Rothman, J H, **424**, 1066
Structure of mitochondrial ADP/ATP carrier in complex with carboxyatractyloside, *Article*, Pebay-Peyroula, E, Dahout-Gonzalez, C, Kahn, R, Trézéguet, V, Lauquin, G J-M, Brandolin, G, **426**, 39
Essence of mitochondria, *News and views*, Henze, K, Martin, W, **426**, 127
Mitochondrial remnant organelles of *Giardia* function in iron-sulphur protein maturation, *Letter to Nature*, Tovar, J, Leon-Avila, G, Sanchez, L B, Sutak, R, Tachezy, J, van der Glezen, M, Hernández, M, Müller, M, Lucocq, J M, **426**, 172
Evolutionary conservation of biogenesis of β-barrel membrane proteins, *Letter to Nature*, Paschen, S A, Waizenegger, T, Stan, T, Preuss, M, Cyrklaff, M, Hell, K, Rapaport, D, Neupert, W, **426**, 862
mitochondrial protease, Loss of Omi mitochondrial protease activity causes the neuromuscular disorder of *mnd2* mutant mice, *Letter to Nature*, Jones, J M, Datta, P, Srinivasula, S M, Ji, W, Gupta, S, Zhang, Z J, Davies, E, Hajnoczky, G, Saunders, T L, Van Keuren, M L, Fernandes-Alnemri, T, Meisler, M H, Alnemri, E S, **425**, 721
mitogen-activated protein kinases, Srb10/Cdk8 regulates yeast filamentous growth by phosphorylating the transcription factor Ste12, *Letter to Nature*, Nelson, C, Goto, S, Lund, K, Hung, W, Sadowski, I, **421**, 187
Impairment of dendritic cells and adaptive immunity by anthrax lethal toxin, *Letter to Nature*, Agrawal, A, Lingappa, J, Leppla, S H, Agrawal, S, Jabbar, A, Quinn, C, Pulendran, B, **424**, 329
Semaphorin 7A promotes axon outgrowth through integrins and MAPKs, *Article*, Pasterkamp, R J, Peschon, J J, Spriggs, M K, Kolodkin, A L, **424**, 398
Feedback regulation of MAPK signalling by an RNA-binding protein, *Letter to Nature*, Sugiura, R, Kita, A, Shimizu, Y, Shuntoh, H, Sio, S O, Kuno, T, **424**, 961
Developmental biology: Partners united, *News and views*, Freeman, M, **425**, 468
Jelly belly protein activates the receptor tyrosine kinase Alk to specify visceral muscle pioneers, *Letter to Nature*, Lee, H-H, Norris, A, Weiss, J B, Frasch, M, **425**, 507
A positive-feedback-based bistable 'memory module' that governs a cell fate decision, *Letter to Nature*, Xiong, W, Ferrell Jr, J E, **426**, 460
mitosis, Xpd/Ercc2 regulates CAK activity and mitotic progression, *Letter to Nature*, Chen, J, Larochelle, S, Li, X, Suter, B, **424**, 228
Determining the position of the cell division plane, *Letter to Nature*, Canman, J C, Cameron, L A, Maddox, P S, Straight, A, Tirnauer, J S, Mitchison, T J, Fang, G, Kapoor, T M, Salmon, E D, **424**, 1074
Corrigendum: Cdc6 cooperates with Sic1 and Hct1 to inactivate mitotic cyclin-dependent kinases, *Letter to Nature*, Calzada, A, Sacristan, M, Sanchez, E, Bueno, A, **426**, 584
MLP protein, Physiology: Machinations of the heart's strain gauge, *News and views*, Surridge, C, **421**, 228
MMP-7, Immunology: Mobilizing the army, *News and views*, Shapiro, S D, **421**, 223
***mnd2* gene**, Loss of Omi mitochondrial protease activity causes the neuromuscular disorder of *mnd2* mutant mice, *Letter to Nature*, Jones, J M, Datta, P, Srinivasula, S M, Ji, W, Gupta, S, Zhang, Z J, Davies, E, Hajnoczky, G, Saunders, T L, Van Keuren, M L, Fernandes-Alnemri, T, Meisler, M H, Alnemri, E S, **425**, 721
Möbius strip, Organic chemistry: Aromatics do the twist, *News and views*, Lemal, D M, **426**, 776
Synthesis of a Möbius aromatic hydrocarbon, *Letter to Nature*, Ajami, D, Oeckler, O, Simon, A, Herges, R, **426**, 819
moa, Extreme reversed sexual size dimorphism in the extinct New Zealand moa Dinornis, *Letter to Nature*, Bunce, M, Worthy, T H, Ford, T, Hoppitt, W, Willerslev, E, Drummond, A, Cooper, A, **425**, 172
Nuclear DNA sequences detect species limits in ancient moa, *Letter to Nature*, Huynen, L, Millar, C D, Scofield, R P, Lambert, D M, **425**, 175

***MOC1* gene**, Control of tillering in rice, *Letter to Nature*, Li, X, Qian, Q, Fu, Z, Wang, Y, Xiong, G, Zeng, D, Wang, X, Liu, X, Teng, S, Hiroshi, F, Yuan, M, Luo, D, Han, B, Li, J, **422**, 618
Mocumbi, Pascoal, Mozambique prime minister tipped for global health post, *News*, Butler, D, **421**, 302
modification cassettes, Binary switches and modification cassettes in histone biology and beyond, *Hypothesis*, Fischle, W, Wang, Y, Allis, C D, **425**, 475
modified newtonian dynamics (MOND), The dark side, *News and views feature*, Fukugita, M, **422**, 489
moesin, Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity, *Letter to Nature*, Speck, O, Hughes, S C, Noren, N K, Kulikauskas, R M, Fehon, R G, **421**, 83
Moken people, Vision: Sea gypsies see shells on the sea floor, *News and views*, Pilcher, H R, **423**, 395
molecular biology, Beyond the double helix, *News feature*, Pearson, H, **421**, 310
Watson and DNA: Making a Scientific Revolution, McElheny, V K, *Book review by* Gilbert, W, **421**, 315
The eternal molecule, *Feature*, Dennis, C, Campbell, P, **421**, 396
Feature: Quiet debut for the double helix, *Feature*, Olby, R, **421**, 402
Feature: Portrait of a molecule, *Feature*, Ball, P, **421**, 421
Fury at plan to split historic biology archive, *News*, Dalton, R, **421**, 564
Molecular biology: Dynamics of condensed DNA, *News and views*, Heinrichs, A, **421**, 597
Auction of DNA archive cancelled, *News*, Dalton, R, **422**, 102
Constellations in a cellular universe, *Commentary*, Aebersold, R, **422**, 115
From genomics to proteomics, *Insight overview*, Tyers, M, Mann, M, **422**, 193
Mass spectrometry-based proteomics, *Insight review article*, Aebersold, R, Mann, M, **422**, 198
Protein analysis on a proteomic scale, *Insight review article*, Phizicky, E, Bastiaens, P I H, Zhu, H, Snyder, M, Fields, S, **422**, 208
From words to literature in structural proteomics, *Insight review article*, Sali, A, Glaeser, R, Earnest, T, Baumeister, W, **422**, 216
Molecular biology: Complicity of gene and pseudogene, *News and views*, Lee, J T, **423**, 26
An expressed pseudogene regulates the messenger-RNA stability of its homologous coding gene, *Letter to Nature*, Hirotsune, S, Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A, **423**, 91
Molecular biology: Disruptive influence, *News and views*, Foiani, M, **423**, 234
Court studies biology papers in row over title, *News in brief*, **423**, 578
Obituary: Ira Herskowitz (1946–2003), *News and views*, Johnson, A, Ptashne, M, **424**, 384
Molecular biology: MicroRNA is here to stay, *News and views*, Benfrey, P N, **425**, 244
Molecular biology: Spreading like wildfire, *News and views*, Heemels, M-T, **425**, 253
Molecular biology: Telomere stutters superfluous, *News and views*, Pearson, H, **425**, 253
Addendum: An expressed pseudogene regulates the messenger-RNA stability of its homogulous coding gene, *Letter to Nature*, Hirotsune, S, Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A, **426**, 100
It's a scoop!, *News feature*, Pearson, H, **426**, 222
Molecular biology: SUMO wrestles with genes, *News and views*, Pilcher, H R, **426**, 402
A new home for molecular biologists, *Opinion*, **426**, 589
EMBO chief threatens to quit over funding crisis, *News*, Schiermeier, Q, **426**, 743
A magnificent seven, *News and views*, Lincoln, T, **426**, 773
molecular chaperones, Molecular chaperones: Plugging the transport gap, *News and views*, Ellis, R J, **421**, 801
molecular dynamics, Probing molecular dynamics with attosecond resolution using correlated wave packet pairs, *Letter to Nature*, Niikura, H, Légaré, F, Hasbani, R, Ivanov, M Y, Villeneuve, D M, Corkum, P B, **421**, 826
The complete folding pathway of a protein from nanoseconds to microseconds, *Letter to Nature*, Mayor, U, Guydosh, N R, Johnson, C M, Grossman, J G, Sato, S, Jas, G S, Freund, S M V, Alonso, D O V, Daggett, V, Fersht, A R, **421**, 863
molecular evolution, Molecular evolution: Duplication, duplication, *News and views*, Meyer, A, **421**, 31
Role of duplicate genes in genetic robustness against null mutations, *Letter to Nature*, Gu, Z, Steinmetz, L M, Gu, X, Scharfe, C, Davis, R W, Li, W-H, **421**, 63
molecular genetics, Feature: The double helix in clinical practice, *Feature*, Bell, J I, **421**, 414
molecular medicine, RNA to the rescue?, *News feature*, Check, E, **425**, 10
molecular motors, A magnificent machine, *News and views*, Vallee, R B, Hook, P, **421**, 701
Dynein structure and power stroke, *Article*, Burgess, S A, Walker, M L, Sakakibara, H, Knight, P J, Olwa, K, **421**, 715
Molecular motors, *Insight review article*, Schliwa, M, Woehlke, G, **422**, 759
Unidirectional rotation in a mechanically interlocked molecular rotor, *Letter to Nature*, Leigh, D A, Wong, J K Y, Dehez, F, Zerbetto, F, **424**, 174
Developmental biology: How to turn inside out, *News and views*, Schmitt, R, Sumper, M, **424**, 499
Neurobiology: Motor proteins branch out, *News and views*, Tromans, A, **424**, 503
A structural state of the myosin V motor without bound nucleotide, *Letter to Nature*, Coureux, P-D, Wells, A L, Ménétrey, J, Yengo, C M, Morris, C A, Sweeney, H L, Houdusse, A, **425**, 419
molecular physiology, Molecular physiology: Tuned for longer life, *News and views*, Turner, R, **423**, 125
Nicotinamide and *PNC1* govern lifespan extension by calorie restriction in *Saccharomyces cerevisiae*, *Letter to Nature*, Andersen, R M, Bitterman, K J, Wood, J G, Medvedik, O, Sinclair, D A, **423**, 181
molecular rulers, Measuring dipolar width across liquid-liquid interfaces with 'molecular rulers', *Letter to Nature*, Steel, W H, Walker, R A, **424**, 296
molecular sexuality, Staphylocoagulase is a prototype for the mechanism of cofactor-induced zymogen activation, *Letter to Nature*, Friedrich, R, Panizzi, P, Fuentes-Prior, P, Richter, K, Verhamme, I, Anderson, P J, Kawabata, S-I, Huber, R, Bode, W, Bock, P E, **425**, 535
molecular structure, A stable silicon-based allene analogue with a formal *sp*-hybridized silicon atom, *Letter to Nature*, Ishida, S, Iwamoto, T, Kira, M, **421**, 725
Who said 'helix'?, *Commentary*, Fuller, W, **424**, 876
Controlling molecular desposition and layer structure with supramolecular surface assemblies, *Letter to Nature*, Theobold, J A, Oxtoby, N S, Philips, M A, Champness, N R, Beton, P H, **424**, 1029
Organic chemistry: Aromatics do the twist, *News and views*, Lemal, D M, **426**, 776
Synthesis of a Möbius aromatic hydrocarbon, *Letter to Nature*, Ajami, D, Oeckler, O, Simon, A, Herges, R, **426**, 819
molecular systematics, Molecular systematics: Counting angels with DNA, *News and views*, Blaxter, M, **421**, 122
molecular vibrations, Selectivity in vibrationally mediated single-molecule chemistry, *Letter to Nature*, Pascual, J I, Lorente, N, Song, Z, Conrad, H, Rust, H-P, **423**, 525
molluscs, You aren't what you eat, *News and views*, Gee, H, **424**, 885
Xenoturbella is a deuterostome that eats molluscs, *Letter to Nature*, Bourlat, S J, Nielsen, C, Lockyer, A E, Littlewood, D T J, Telford, M J, **424**, 925
Cephalopod *Hox* genes and the origin of morphological novelties, *Letter to Nature*, Lee, P N, Callaerts, P, de Couet, H G, Martindale, M Q, **424**, 1061
molybdenum blue solutions, Self-assembly in aqueous solution of wheel-shaped Mo_{154} oxide clusters into vesicles, *Letter to Nature*, Liu, T, Diemann, E, Li, H, Dress, A W M, Müller, A, **426**, 59
monkeyflowers, Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers, *Letter to Nature*, Bradshaw, H D, Schemske, D, **426**, 176
monkeypox, Prairie-dog model offers hope of tackling monkeypox virus, *News*, Knight, J, **423**, 674
The role of evolutionary in the emergence of infectious diseases, *Letter to Nature*, Antia, R, Regoes, R R, Koella, J C, Bergstrom, C T, **426**, 658
monkeys, Neuronal synchrony does not correlate with motion coherence in cortical area MT, *Letter to Nature*, Thiele, A, Stoner, G, **421**, 366
A spatially organized representation of colour in macaque cortical area V2, *Letter to Nature*, Xiao, Y, Wang, Y, Felleman, D J, **421**, 535
Facial expression linked to monkey calls, *Brief communication*, Ghazanfar, A A, Logothetis, N K, **423**, 937
China launches primate centre to broaden medical use of monkeys, *News*, Cyranoski, D, **424**, 239
Neurobiology: Caught in the act, *News and views*, Dudai, Y, **424**, 377
Neural correlates of implied motion, *Letter to Nature*, Krekelberg, B, Dannenberg, S, Hoffman, K-P, Bremmer, F, Ross, J, **424**, 674
Monkeys reject unequal pay, *Letter to Nature*, Brosnan, S F, de Waal, F B M, **425**, 297
monoclonal antibodies, Monoclonal antibodies inhibit prion replication and delay the development of prion disease, *Letter to Nature*, White, A R, Enever, P, Tayebi, M, Mushens, R, Linehan, J, Brandner, S, Anstee, D, Collinge, J, Hawke, S, **422**, 80
monsoons, Global change: Monsoon linkages, *News and views*, Zahn, R, **421**, 324
Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean, *Letter to Nature*, Gupta, A K, Anderson, D M, Overpeck, J T, **421**, 354
Delta blues, *News feature*, Clarke, T, **422**, 254
Monsoon rains start to ease India's drought, *News*, Jayaraman, K S, **423**, 673
Montreal Protocol, Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
monuments, Archaeology: Propaganda of the pyramids, *News and views*, Diamond, J, **424**, 891
Moon, Earth's, Model for magnetic mystery, *News and views*, Zuber, M T, **421**, 119
An early lunar core dynamo driven by thermochemical mantle convection, *Letter to Nature*, Stegman, D R, Jellinek, A M, Zatman, S A, Baumgardner, J R, Richards, M A, **421**, 143
The Mystery of the Moon Illusion, Ross, H, Plug, C, *Book review by* Hershenson, M, **421**, 695
Space: next step is an International Moon Base, *Correspondence*, Crawford, I, **422**, 373
India launches plan for mission to map the moon, *News*, Jayaraman, K S, **424**, 98
Ion-powered probe set for year-long Moon trek, *News*, Brumfiel, G, **425**, 438
The Big Splat: or How Our Moon Came to Be, Mackenzie, D, *Book review by* Burns, J A, **425**, 664
India's mission to the Moon is worthwhile, *Correspondence*, Narasimba, R, **425**, 763
Radar imaging of the lunar poles, *Brief communication*, Campbell, B A, Campbell, D B, Chandler, J F, Hine, A A, Nolan, M C, Perillat, P J, **426**, 137
Lunar dreams, again, *Opinion*, **426**, 589
Moon illusion, The Mystery of the Moon Illusion, Ross, H, Plug, C, *Book review by* Hershenson, M, **421**, 695
moonlight, Insect orientation to polarized moonlight, *Brief communication*, Dacke, M, Nilsson, D-E, Scholtz, C H, Byrne, M, Warrant, E J, **424**, 33
moons, planetary, Planetary science: Jupiter's moonopoly, *News and views*, Hamilton, D P, **423**, 235
An abundant population of small irregular satellites around Jupiter, *Letter to Nature*, Sheppard, S S, Jewitt, D C, **423**, 261
Chaos-assisted capture of irregular moons, *Letter to Nature*, Astakhov, S A, Burbanks, A D, Wiggins, S, Farrelly, D, **423**, 264
Mooney, Patrick, A little knowledge, *News feature*, Brumfiel, G, **424**, 246
Moratti, Letizia, Italian science minister loses out over research reform, *News in brief*, **422**, 106
morphogenesis, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123
Fibronectin requirement in branching morphogenesis, *Letter to Nature*, Sakai, T, Larsen, M, Yamada, K M, **423**, 876
morphology, Strong population substructure is correlated with morphology and ecology in a migratory bat, *Letter to Nature*, Miller-Butterworth, C M, Jacobs, D S, Harley, E H, **424**, 187
The Development of Animal Form: Ontogeny, Morphology, and Evolution, Minelli, A, *Book review by* Meyer, A, **424**, 255
Developmental biology: Twisting the body into shape, *News and views*, Scott, I C, Stainier, D Y R, **425**, 461
Morris, Simon Conway, Of fossils and fusilli — Simon Conway Morris, *Lifelines*, **421**, 319
Morris, William, The arsenic green, *Science in culture*, Meharg, A, **423**, 688
MOSE, Save our city!, *News feature*, Nosengo, N, **424**, 608
mosquitoes, Malaria — there could be a third way, *Correspondence*, Miles, M A, **421**, 13
Malaria: Pump hijacker, *News and views*, Pearson, H, **423**, 30
Comparative genomics: Insecticide resistance in mosquito vectors, *Brief communication*, Weill, M, Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M, **423**, 136
Corrigendum: Insecticide resistance in mosquito vectors, *Brief communication*, Weill, M, Lutfalla, G, Mogensen, K, Chandre, F, Berthomieu, A, Berticat, C, Pasteur, N, Philips, A, Fort, P, Raymond, M, **425**, 366
Mosquito production mooted as fast track to malaria vaccine, *News*, Butler, D, **425**, 437
moths, Structural adaptability in the ligand-binding pocket of the ecdysone hormone receptor, *Letter to Nature*, Billas, I M L, Iwema, T, Garnier, J-M, Mitschler, A, Rochel, N, Moras, D, **426**, 91
Winging it, *Book review*, Purton, M, **426**, 605
motion perception, The retina's fancy tricks, *News and views*, Masland, R H, **423**, 387
Segregation of object and background motion in the retina, *Article*, Ölveczky, B P, Baccus, S A, Meister, M, **423**, 401
The influence of visual motion on fast reaching movements to a stationary object, *Letter to Nature*, Whitney, D, Westwood, D A, Goodale, M A, **423**, 869
Perceptual consequences of centre-surround antagonism in visual motion processing, *Letter to Nature*, Tadin, D, Lappin, S, Gilroy, L A, Blake, R, **424**, 312
motor proteins, A magnificent machine, *News and views*, Vallee, R B, Hook, P, **421**, 701
moulds, Cell motility: Making streams, *News and views*, Kessin, R H, **422**, 481
Revelations from a bread mould, *News and views*, Arnold, J, Hilton, N, **422**, 821
moulting, Structural adaptability in the ligand-binding pocket of the ecdysone hormone receptor, *Letter to Nature*, Billas, I M L, Iwema, T, Garnier, J-M, Mitschler, A, Rochel, N, Moras, D, **426**, 91
Mount Stromlo Observatory, Bushfires annihilate Australian observatory, *News*, Dennis, C, **421**, 302
mountains, Earth science: How do your mountains grow?, *News and views*, Jones, N, **425**, 781
Cenozoic climate change as a possible cause for the rise of the Andes, *Article*, Lamb, S, Davis, P, **425**, 792
Geomorphology: Nature, nurture and landscape, *News and views*, Molnar, P, **426**, 612
Coupled spatial variations in precipitation, *Letter to Nature*, Reiners, P W, Ehlers, T A, Mitchell, S G, Montgomery, D R, **426**, 645
Links between erosion, runoff variability and seismicity in the Taiwan orogen, *Letter to Nature*, Dadson, S J, Hovius, N, Chen, H, Dade, W B, Hsieh, M-L, Willett, S D, Hu, J-C, Horng, M-J, Chen, M-C, Stark, C P, Lague, D, Lin, J-C, **426**, 648
Decoupling of erosion and precipitation in the Himalayas, *Letter to Nature*, Burbank, D W, Blythe, A E, Putkonen, J, Pratt-Sitaula, B, Gabet, E, Oskin, M, Barros, A, Ojha, T P, **426**, 652
mouse, Physiology: Cost-free longevity in mice, *News and views*, Lithgow, G J, Gill, M S, **421**, 125
IGF-1 receptor regulates lifespan and resistance to oxidative stress in mice, *Letter to Nature*, Holzenberger, M, Dupont, J, Ducos, B, Leneuve, P, Geloen, A, Even, P C, Cervera, P, Le Bouc, Y, **421**, 182

Neurobiology: Fear thou not, *News and views*, Dudai, Y, **421**, 325

The genetic basis of family conflict resolution in mice, *Letter to Nature*, Hager, R, Johnstone, R A, **421**, 533

STAT3 signalling is required for leptin regulation of energy balance but not reproduction, *Letter to Nature*, Bates, S H, Stearns, W H, Dundon, T A, Schubert, M, Tso, A W K, Wang, Y, Banks, A S, Lavery, H J, Haq, A K, Maratos-Flier, E, Neel, B G, Schwartz, M W, Myers Jr, M G, **421**, 856

Developmental biology: A twist in a mouse tale, *News and views*, Dyson, N, **421**, 903

Extra-embryonic function of Rb is essential for embryonic development and viability, *Letter to Nature*, Wu, L, de Bruin, A, Saavedra, H I, Starovic, M, Trimboll, A, Yang, Y, Opavska, J, Wilson, P, Thompson, J C, Ostrowski, M C, Rosol, T J, Woollett, L A, Weinstein, M, Cross, J C, Robinson, M L, Leone, G, **421**, 942

Genetics of gene expression surveyed in maize, mouse and man, *Letter to Nature*, Schadt, E E, Monks, S A, Drake, T A, Lusis, A J, Che, N, Colinayo, V, Ruff, T G, Milligan, S B, Lamb, J R, Cavet, G, Linsley, P S, Mao, M, Stoughton, R B, Friend, S H, **422**, 297

Cell biology: Muscle mice, *News and views*, Pilcher, H R, **422**, 393

A progeroid syndrome in mice is caused by defects in A-type lamins, *Letter to Nature*, Mounkes, L C, Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L, **423**, 298

Rapid change in mouse mitochondrial DNA, *Brief communication*, Pergams, O R W, Barnes, W M, Nyberg, D, **423**, 397

Role of ERas in promoting tumour-like properties in mouse embryonic stem cells, *Letter to Nature*, Takahashi, K, Mitsui, K, Yamanaka, S, **423**, 541

Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice, *Letter to Nature*, Hattar, S, Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W, **424**, 76

Neuroscience: Of mice and mentality, *News and views*, Blinkhorn, S, **424**, 1004

Nuclear cataract caused by a lack of DNA degradation in the mouse eye lens, *Letter to Nature*, Nishimoto, S, Kawane, K, Watanabe-Fukunaga, R, Fukuyama, H, Ohsawa, Y, Uchiyama, Y, Hashida, N, Ohguro, N, Tano, Y, Morimoto, T, Fukuda, Y, Nagata, S, **424**, 1071

Functional genetic analysis of mouse chromosome 11, *Letter to Nature*, Kile, B T, Hentges, K E, Clark, A T, Nakamura, H, Salinger, A P, Liu, B, Box, N, Stockton, D W, Johnson, R L, Behringer, R R, Bradley, A, Justice, M J, **425**, 81

Software mogul turns to mouse for genetic atlas of the brain, *News*, Dalton, R, **425**, 226

Tissue repair: Gel brought to heal in mice, *News and views*, Pilcher, H R, **425**, 678

Loss of Omi mitochondrial protease activity causes the neuromuscular disorder of *mnd2* mutant mice, *Letter to Nature*, Jones, J M, Datta, P, Srinivasula, S M, Ji, W, Gupta, S, Zhang, Z J, Davies, E, Hajnoczky, G, Saunders, T L, Van Keuren, M L, Fernandes-Alnemri, T, Meisler, M H, Alnemri, E S, **425**, 721

Prion diseases: Untangling toxicity, *News and views*, Thomas, C, **426**, 28

Hedgehog signalling in the mouse requires intraflagellar transport proteins, *Letter to Nature*, Huangfu, D, Liu, A, Rakeman, A S, Murcia, N S, Miswander, L, Anderson, K V, **426**, 83

Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice, *Letter to Nature*, Sakaguchi, N, Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S, **426**, 454

Inheritance of a pre-inactivated paternal X chromosome in early mouse embryos, *Letter to Nature*, Huynh, D, Lee, J T, **426**, 857

mouse embryonic fibroblast cells, Tumour suppressors: Timing will tell, *News and views*, Berns, A, **424**, 140

Mozambique, Mozambique prime minister tipped for global health post, *News*, Butler, D, **421**, 302

mPing, An active DNA transposon family in rice, *Letter to Nature*, Jiang, N, Bao, Z, Zhang, X, Hirochika, H, Eddy, S R, McCouch, S R, Wessler, S R, **421**, 163

The plant MITE *mPing* is mobilized in anther culture, *Letter to Nature*, Kikuchi, K, Terauchi, K, Wada, M, Hirano, H-Y, **421**, 167

Mobilization of a transposon in the rice genome, *Letter to Nature*, Nakazaki, T, Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T, **421**, 170

Mr Sneeze, Kids' cartoon faces probe over drug tie-in deal, *News in brief*, **424**, 869

Mrc1 protein, S-phase checkpoint proteins Tof1 and Mrc1 form a stable replication-pausing complex, *Letter to Nature*, Katou, Y, Kanoh, Y, Bando, M, Noguchi, H, Tanaka, H, Ashikari, T, Sugimoto, K, Shirahige, K, **424**, 1078

Mrk231 galaxy, Investigation of the obscuring circumnuclear torus in the active galaxy Mrk231, *Letter to Nature*, Klöckner, H-R, Baan, W A, Garrett, M A, **421**, 821

MT1-MMP, Cell biology: Tumour jailbreak, *News and views*, Yamada, K M, **424**, 889

MTA3 protein, Cancer: Cell invasions and oestrogen receptors, *News and views*, Pilcher, H R, **422**, 829

mucilage, Plant science: Self-help for the interactive root, *News and views*, Whitfield, J, **421**, 709

mucosal-associated invariant T cells, Selection of evolutionarily conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **422**, 164

Corrigendum: Selection of evolutionary conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **423**, 1018

mule deer, Horizontal prion transmission in mule deer, *Brief communication*, Miller, M W, Williams, E S, **425**, 35

Mullan, Michael, South Florida rocked as dean quits over political funding, *News*, Dalton, R, **425**, 889

multidrug resistance, An ABC transporter with a secondary-active multidrug translocator domain, *Letter to Nature*, Venter, H, Shilling, R A, Velamakanni, S, Balakrishnan, L, van Veen, H W, **426**, 866

multidrug-resistance transporters, Cell biology: Drug resistance lies within, *News and views*, Pearson, H, **423**, 134

An ABC transporter with a secondary-active multidrug translocator domain, *Letter to Nature*, Venter, H, Shilling, R A, Velamakanni, S, Balakrishnan, L, van Veen, H W, **426**, 866

multiphase catalysis, Catalysis: A greener solution, *News and views*, Leitner, W, **423**, 930

multiple myeloma, Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905

multiple sclerosis, Medicine: Collateral damage repaired, *News and views*, Steinman, L, **422**, 671

Injection of adult neurospheres induces recovery in a chronic model of multiple sclerosis, *Article*, Pluchino, S, Quattrini, A, Brambilla, E, Gritti, A, Salani, G, Dina, G, Galli, R, Del Carro, U, Amadio, S, Bergami, A, Furlan, R, Comi, G, Vescovi, A L, Martino, G, **422**, 688

Medical tests of cannabis leave doctors in a haze, *News in brief*, **426**, 113

multiple-systems estimation, Statistical model leaves Peru counting the cost of civil war, *News*, Knight, J, **425**, 6

mummies, The Scientific Study of Mummies, Aufderheide, A C, *Book review by* Wisseman, S U, **423**, 18

mummification, Ancient materials: Analysis of a pharaonic embalming tar, *Brief communication*, Koller, J, Baumer, U, Kaup, Y, Scmid, M, Weser, U, **425**, 784

Munch, Edvard, Volcano breathed life into Munch's Scream, *News in brief*, **426**, 747

Munk, Walter, Researcher uncovers truth behind wartime security slur, *News*, Dalton, R, **421**, 303

muons, Radiographic imaging with cosmic-ray muons, *Brief communication*, Borozdin, K N, Hogan, G E, Morris, C, Proedhorsky, W C, Saunders, A, Schultz, L J, Teasdale, M E, **422**, 277

murder, Violence viewed by psychopathic murderers, *Brief communication*, Gray, N S, MacCulloch, M J, Smith, J, Morris, M, Snowden, R J, **423**, 497

Murr1, The gene product Murr1 restricts HIV-1 replication in resting $CD4^+$ lymphocytes, *Letter to Nature*, Ganesh, L, Burstein, E, Guha-Niyogi, A, Louder, M K, Mascola, J R, Klomp, L W J, Wijmenga, C, Duckett, C S, Nabel, G J, **426**, 853

Murray's law, Water transport in plants obeys Murray's law, *Letter to Nature*, McCulloh, K A, Sperry, J S, Adler, F R, **421**, 939

muscle, Cell biology: Muscle mice, *News and views*, Pilcher, H R, **422**, 393

Cell biology: Patches for wounded muscle, *News and views*, Ellis, J A, **423**, 129

Neurobiology: Muscle molecule in myelin moderation, *News and views*, Pilcher, H R, **423**, 820

Structure of the core domain of human cardiac troponin in the Ca^{2+}-saturated form, *Article*, Takeda, S, Yamashita, A, Maeda, K, Maeda, Y, **424**, 35

Spontaneous muscle twitches during sleep guide spinal self-organization, *Letter to Nature*, Petersson, P, Waldenstrom, A, Fahraeus, C, Schouenborg, J, **424**, 72

Cell biology: The molecules that make muscle, *News and views*, Gullberg, D, **424**, 138

Visualization of an unstable coiled coil from the scallop myosin rod, *Letter to Nature*, Li, Y, Brown, J H, Reshetnikova, L, Blazsek, A, Farkas, L, Nyltray, L, Cohen, C, **424**, 341

The role of neuronal identity in synaptic competition, *Letter to Nature*, Kasthuri, N, Lichtman, J W, **424**, 426

A regulatory mutation in *IGF2* causes a major QTL effect on muscle growth in the pig, *Letter to Nature*, Van Laere, A-S, Nguyen, M, Braunschweig, M, Nezer, C, Collette, C, Moreau, L, Archibald, A L, Haley, C S, Buys, N, Tally, M, Andersson, G, Georges, M, Andersson, L, **425**, 832

muscular dystrophy, Cell biology: Muscle mice, *News and views*, Pilcher, H R, **422**, 393

Cell biology: Patches for wounded muscle, *News and views*, Ellis, J A, **423**, 129

Defective membrane repair in dysferlin-deficient muscular dystrophy, *Letter to Nature*, Bansal, D, Miyake, K, Vogel, S S, Groh, S, Chen, C-C, Williamson, R, McNeil, P L, Campbell, K P, **423**, 168

Muses C mission, Asteroid probe to test technologies, *News*, Cyranoski, D, **423**, 212

museums, Report backs Smithsonian research, *News*, Check, E, **421**, 198

The price of collecting life, *Commentary*, Smith, G F, Steenkamp, Y, Klopper, R R, Siebert, S J, Arnold, T H, **422**, 375

Baghdad looters rob museum of priceless ancient treasures, *News in brief*, **422**, 654

Historians pool resources to halt trade in Iraq's stolen treasures, *News*, Hoag, H, **422**, 789

Museums face prospect of giving up human remains, *News in brief*, **423**, 374

Recovering from cultural devastation, *Opinion*, **423**, 465

Natural history collections in crisis as funding is slashed, *News*, Dalton, R, **423**, 575

Exhibition: The medicine man's museum, *Book review*, Abbott, A, **423**, 805

Museum trustees quit after row over sale of artefacts, *News*, Dalton, R, **424**, 360

Safe home planned for Iowa herbarium, *Correspondence*, Lilien, J, **425**, 121

Pixels and piety, *Science in culture*, Kemp, M, **425**, 128

Museum breaks mould in attempts to lure reluctant visitors, *News*, Giles, J, **426**, 6

mushrooms, Genetics: Suicidal mushroom cells, *News and views*, Money, N P, **423**, 26

music, Music: Sun Rings, Riley, T, *Book review by* Mossinger, J C, **422**, 565

Father of atomic bomb gets night at the opera, *News in brief*, **423**, 911

Acoustics: New bells ring sweeter, *News and views*, Ball, P, **424**, 265

The Cognitive Neuroscience of Music, Peretz, I, Zatorre, R, *Book review by* Janata, P, **426**, 386

mutagenesis, Control of spontaneous and damage-induced mutagenesis by SUMO and ubiquitin conjugation, *Letter to Nature*, Stelter, P, Ulrich, H D, **425**, 188

mutation, Human genetics: Lost anchors cost lives, *News and views*, Nattel, S, **421**, 587

Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death, *Letter to Nature*, Mohler, P J, Schott, J-J, Gramolini, A O, Dilly, K W, Guatimosim, S, duBell, W H, Song, L-S, Haurogne, K, Kyndt, F, Ali, M E, Rogers, T B, Lederer, W J, Escande, D, Le Marec, H, Bennett, V, **421**, 634

Cell biology: Developmental predisposition to cancer, *Brief communication*, Frank, S A, Nowak, M A, **422**, 494

The evolutionary origin of complex features, *Article*, Lenski, R E, Ofria, C, Pennock, R T, Adami, C, **423**, 139

Recurrent *de novo* point mutations in lamin A cause Hutchinson–Gilford progeria syndrome, *Letter to Nature*, Eriksson, M, Brown, W T, Gordon, L B, Glynn, M W, Singer, J, Scott, L, Erdos, M R, Robbins, C M, Moses, T Y, Berglund, P, Dutra, A, Pak, E, Durkin, S, Csoka, A B, Boehnke, M, Glover, T W, Collins, F S, **423**, 293

HIV: Lucky mutation, *News and views*, Pilcher, H R, **423**, 598

Evolutionary biology: Compensation claim, *News and views*, Hopkin, M, **423**, 935

The cytidine deaminase CEM15 induces hypermutation in newly synthesized HIV-1 DNA, *Letter to Nature*, Zhang, H, Yang, B, Pomerantz, R J, Zhang, C, Arunachalam, S C, Gao, L, **424**, 94

Processive AID-catalysed cytosine deamination on single-stranded DNA simulates somatic hypermutation, *Letter to Nature*, Pham, P, Bransteitter, R, Petruska, J, Goodman, M F, **424**, 103

Rationalization of the effects of mutations on peptide and protein aggregation rates, *Letter to Nature*, Chiti, F, Stefani, M, Taddei, N, Ramponi, G, Dobson, C M, **424**, 805

Generation of prion transmission barriers by mutational control of amyloid conformations, *Letter to Nature*, Chien, P, DePace, A H, Collins, S R, Weissman, J S, **424**, 948

Genetics: A balancing act, *News and views*, Rossant, J, **425**, 29

Functional genetic analysis of mouse chromosome 11, *Letter to Nature*, Kile, B T, Hentges, K E, Clark, A T, Nakamura, H, Salinger, A P, Liu, B, Box, N, Stockton, D W, Johnson, R L, Behringer, R R, Bradley, A, Justice, M J, **425**, 81

Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers, *Letter to Nature*, Bradshaw, H D, Schemske, D, **426**, 176

mutualism, Host sanctions and the legume–rhizobium mutualism, *Letter to Nature*, Kiers, E T, Rousseau, R A, West, S A, Denison, R F, **425**, 78

Myc protein, Cancer: Building blood vessels, *News and views*, Pilcher, H R, **422**, 487

mycorrhizae, Ecology: Mycorrhizal weathering in base-poor forests, *Brief communication*, Watmough, S A, Dillon, P J, **423**, 823

Reply: Ecology: Mycorrhizal weathering in base-poor forests, *Brief communication*, Blum, J D, Klaue, A, Nezat, C A, Driscoll, T, Johnson, C E, Siccama, T G, Eagar, C, Fahey, T J, Likens, G E, **423**, 824

MyD88, Identification of *Lps2* as a key transducer of MyD88-independent TIR signalling, *Article*, Hoebe, K, Du, X, Georgel, P, Janssen, E, Tabeta, K, Kim, S O, Goode, J, Lin, P, Mann, N, Mudd, S, Crozat, K, Sovath, S, Han, J, Beutler, B, **424**, 743

myelin, Neurobiology: Muscle molecule in myelin moderation, *News and views*, Pilcher, H R, **423**, 820

myocyte enhancer factor-2, Sequence-specific recruitment of transcriptional co-repressor Cabin1 by myocyte enhancer factor-2, *Letter to Nature*, Han, A, Pan, F, Stroud, J C, Youn, H-D, Liu, J O, Chen, L, **422**, 730

myosin, Regulated degradation of a class V myosin receptor directs movement of the yeast vacuole, *Letter to Nature*, Tang, F, Kauffman, E J, Novak, J L, Nau, J J, Catlett, N L, Weisman, L S, **422**, 87

Three-dimensional structural dynamics of myosin V by single-molecule fluorescence, *Article*, Forkey, J N, Quinlan, M E, Shaw, M A, Corrie, J E T, Goldman, Y E, **422**, 399

Molecular motors, *Insight review article*, Schliwa, M, Woehlke, G, **422**, 759

Visualization of an unstable coiled coil from the scallop myosin rod, *Letter to Nature*, Li, Y, Brown, J H, Reshetnikova, L, Blazsek, A, Farkas, L, Nyltray, L, Cohen, C, **424**, 341

A structural state of the myosin V motor without bound nucleotide, *Letter to Nature*, Coureux, P-D, Wells, A L, Ménétrey, J, Yengo, C M, Morris, C A, Sweeney, H L, Houdusse, A, **425**, 419

Electron cryo-microscopy shows how strong binding of myosin to actin releases nucleotide, *Letter to Nature*, Holmes, K C, Angert, I, Kull, F J, Jahn, W, Schröder, R R, **425**, 423

Cell biology: Stretch and split, *News and views*, Pearson, H, **425**, 914

Myxococcus xanthus, Evolution of novel cooperative swarming in the bacterium *Myxococcus xanthus*, *Letter to Nature*, Velicer, G J, Yu, Y-t N, **425**, 75

NADPH oxidase, Reactive oxygen species produced by NADPH oxidase regulate plant cell growth, *Letter to Nature*, Foreman, J, Demidchik, V, Bothwell, J H F, Myiona, P, Miedema, H, Torres, M A, Linstead, P, Costa, S, Brownlee, C, Jones, J D G, Davies, J M, Dolan, L, **422**, 442
The voltage dependence of NADPH oxidase reveals why phagocytes need proton channels, *Letter to Nature*, DeCoursey, T E, Morgan, D, Cherny, V V, **422**, 531
Nano-Systems Biology Alliance, The tiny toolkit, *News feature*, Zandonella, C, **423**, 10
nanobelts, Microscopy: Nanoscience in ribbons, *News and views*, Ball, P, **423**, 134
nanobots, Nanotech is not so scary, *Editorial*, **421**, 299
If atomic precision is unfeasible, so is life, *Correspondence*, Drexler, K E, **422**, 257
nanocage, Synthetic chemistry: A perfect fit, *News and views*, Ramamurthy, V, **423**, 394
nanocavities, High-Q photonic nanocavity in a two-dimensional photonic crystal, *Letter to Nature*, Akahane, Y, Asano, T, Song, B-S, Noda, S, **425**, 944
nanocircuits, Polymer chemistry: Plastic wrap for nanocircuits, *News and views*, Ball, P, **426**, 402
nanocrystals, Three-dimensional binary superlattices of magnetic nanocrystals and semiconductor quantum dots, *Letter to Nature*, Redl, F X, Cho, K-S, Murray, C B, O'Brien, S, **423**, 968
nanoelectromechanical systems, Nanoelectromechanical systems: Nanodevice motion at microwave frequencies, *Brief communication*, Ming, X, Huang, H, Zorman, C A, Mehregany, M, Roukes, M L, **421**, 496
nanoelectronics, Nanoelectronics: Silicon springs leaks, *News and views*, Ball, P, **422**, 393
Rotational actuators based on carbon nanotubes, *Letter to Nature*, Fennimore, A M, Yuzvinsky, T D, Han, W-Q, Fuhrer, M S, Cumings, J, Zettl, A, **424**, 408
nanofibriles, The matrix, reinvented, *News feature*, Cyranoski, D, **424**, 870
nanofluids, Complex fluids: Spread the word about nanofluids, *News and views*, Chaudhury, M K, **423**, 131
Spreading of nanofluids on solids, *Letter to Nature*, Wasan, D T, Nikolov, A D, **423**, 156
nanomachines, Feature: DNA in a material world, *Feature*, Seeman, N C, **421**, 427
nanomagnets, Microwave oscillations of a nanomagnet driven by a spin-polarized current, *Letter to Nature*, Kiselev, S I, Sankey, J C, Krivorotov, I N, Emley, N C, Schoelkopf, R J, Buhrman, R A, Ralph, D C, **425**, 380
nanoparticles, Chaperonin-mediated stabilization and ATP-triggered release of semiconductor nanoparticles, *Letter to Nature*, Ishii, D, Kinbara, K, Ishida, Y, Ishii, N, Okochi, M, Yohda, M, Aida, T, **423**, 628
Beating the superparamagnetic limit with exchange bias, *Letter to Nature*, Skumryev, V, Stoyanov, S, Zhang, Y, Hadjipanayis, G, Givord, D, Nogués, J, **423**, 850
Materials science: Nanoparticles target tumours, *News and views*, Morris, J, **423**, 935
Three-dimensional binary superlattices of magnetic nanocrystals and semiconductor quantum dots, *Letter to Nature*, Redl, F X, Cho, K-S, Murray, C B, O'Brien, S, **423**, 968
Creep-strengthening of steel at high temperatures using nano-sized carbonitride dispersions, *Letter to Nature*, Taneike, M, Abe, F, Sawada, K, **424**, 294
Water-driven structure transformation in nanoparticles at room temperature, *Letter to Nature*, Zhang, H, Gilbert, B, Huang, F, Banfield, J F, **424**, 1025
Controlling anisotropic nanoparticle growth through plasmon excitation, *Letter to Nature*, Jin, R, Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A, **425**, 487
Drying-mediates self-assembly of nanoparticles, *Letter to Nature*, Rabani, E, eichman, D R, Geissler, P L, Brus, L E, **426**, 271
nanoprobes, Imaging: Nanoprobes on the blink, *News and views*, Ball, P, **421**, 907
nanoribbons, High-performance thin-film transistors using semiconductor nanowires and nanoribbons, *Letter to Nature*, Duan, X, Niu, C, Sahi, V, Chen, J, Parce, J W, Empedocles, S, Goldman, J L, **425**, 274
nanoscience, Microscopy: Nanoscience in ribbons, *News and views*, Ball, P, **423**, 134
nanostructures, Real-time detection of electron tunnelling in a quantum dot, *Letter to Nature*, Lu, W, Ji, Z, Pfeiffer, L, West, K W, Rimberg, A J, **423**, 422
Materials science: On the straight and narrow, *News and views*, Register, R A, **424**, 378
Epitaxial self-assembly of block copolymers on lithographically defined nanopatterned substrates, *Letter to Nature*, Kim, S O, Solak, H H, Stoykovich, M P, Ferrier, N J, de Pablo, J J, Nealey, P F, **424**, 411
nanotechnology, Nanotech is not so scary, *Editorial*, **421**, 299
Feature: DNA in a material world, *Feature*, Seeman, N C, **421**, 427
Nanoelectromechanical systems: Nanodevice motion at microwave frequencies, *Brief communication*, Ming, X, Huang, H, Zorman, C A, Mehregany, M, Roukes, M L, **421**, 496
If atomic precision is unfeasible, so is life, *Correspondence*, Drexler, K E, **422**, 257
Nanotechnology: Dendritic lasers, *News and views*, Ball, P, **422**, 577
Royal society to give prince nanotech news, *News in brief*, **423**, 8
The tiny toolkit, *News feature*, Zandonella, C, **423**, 10
Nanotechnology: Nanotubes get sorted, *News and views*, Ball, P, **424**, 143
Don't believe the hype, *Opinion*, **424**, 237
A little knowledge, *News feature*, Brumfiel, G, **424**, 246
Nanotechnology: A barrier falls, *News and views*, Tersoff, J, **424**, 622
Electronics: Nanotechnology goes large, *News and views*, Gerstner, E, **425**, 244
Written in blood, *Concepts*, Liotta, L A, Ferrari, M, Petricoin, E, **425**, 905
Congress endorses big spending on small science, *News in brief*, **426**, 376
What is there to fear from something so small, *News feature*, Giles, J, **426**, 750
nanotube electronics, Nanotube electronics: Large-scale assembly of carbon nanotubes, *Brief communication*, Rao, S G, Huang, L, Setyawan, W, Hong, S, **425**, 36
nanotubes, Single-crystal gallium nitride nanotubes, *Letter to Nature*, Goldberger, J, He, R, Zhang, Y, Lee, S, Yan, H, Choi, H-J, Yang, P, **422**, 599
Corrigendum: High brightness electron beam from a multi-walled carbon nanotube, *Letter to Nature*, de Jonge, N, Lamy, Y, Schoots, K, Oosterkamp, T H, **423**, 461
Super-tough carbon-nanotube fibres, *Brief communication*, Dalton, A B, Collins, S, Muñoz, E, Razal, J M, Ebron, V H, Ferraris, J P, Coleman, J N, Kim, B G, Baughman, R H, **423**, 703
Nanotechnology: Nanotubes get sorted, *News and views*, Ball, P, **424**, 143
Miniaturized gas ionization sensors using carbon nanotubes, *Letter to Nature*, Modi, A, Koratkar, N, Lass, E, Wei, B, Ajayan, P M, **424**, 171
Rotational actuators based on carbon nanotubes, *Letter to Nature*, Fennimore, A M, Yuzvinsky, T D, Han, W-Q, Fuhrer, M S, Cumings, J, Zettl, A, **424**, 408
Direct observation of Tomonaga-Luttinger-liquid state in carbon nanotubes at low temperatures, *Letter to Nature*, Ishii, H, Kataura, H, Shiozawa, H, Yoshioka, H, Otsubo, H, Takayama, Y, Miyahara, T, Suzuki, S, Achiba, Y, Nakatake, M, Narimura, T, Higashiguchi, M, Shimada, K, Namatame, H, Taniguchi, M, **426**, 540
nanowires, Single-nanowire electrically driven lasers, *Letter to Nature*, Duan, X, Huang, Y, Agarwal, R, Lieber, C M, **421**, 241
Nanotechnology: Dendritic lasers, *News and views*, Ball, P, **422**, 577
The tiny toolkit, *News feature*, Zandonella, C, **423**, 10
Wires on water, *News and views*, Yang, P, **425**, 243
High-performance thin-film transistors using semiconductor nanowires and nanoribbons, *Letter to Nature*, Duan, X, Niu, C, Sahi, V, Chen, J, Parce, J W, Empedocles, S, Goldman, J L, **425**, 274
What is there to fear from something so small, *News feature*, Giles, J, **426**, 750
NASA (US), Fair play for trial balloons, *Editorial*, **421**, 299
Up, up and away, *News feature*, Reichhardt, T, **421**, 308
Where now for NASA?, *Editorial*, **421**, 559
Columbia explosion may trigger fatal delays for space station, *News*, Reichhardt, T, **421**, 561
NASA sets up dual probes into shuttle accident, *News*, Brumfiel, G, **421**, 561
Space research goes nuclear, *News*, Brumfiel, G, Hoag, H, **421**, 565
Shuttle inquiry to piece disaster together from the ground up, *News*, Butler, D, **421**, 677
On wings and a prayer, *News feature*, Brumfiel, G, **421**, 684
NASA seeks inspiration from microscopic views of life, *News*, Knight, J, **421**, 878
NASA pins hopes on nuclear-powered orbiter, *News*, Reichhardt, T, **421**, 881
Columbia researchers sift through reclaimed results, *News in brief*, **421**, 882
Astronomers urge NASA not to cut corners on Hubble successor, *News*, Reichhardt, T, **422**, 3
NASA decides that three's a crowd on space station, *News in brief*, **422**, 8
NASA intensifies probe into Columbia failure, *News*, Reichhardt, T, **422**, 249
Long-haul balloon makes more of a splash than planned, *News in brief*, **422**, 366
Columbia data hint at wing damage during launch, *News in brief*, **422**, 462
Infrared observatory prepares for lift-off, *News*, Reichhardt, T, **422**, 549
NASA homes in on sites for Mars exploration, *News*, Reichhardt, T, **422**, 653
NASA feels the heat as glacier pictures cause unrest in Peru, *News in brief*, **422**, 794
Columbia inquiry homes in on faulty foam, *News*, Reichhardt, T, **423**, 7
Rocket-engine defect delays observatory launch, *News in brief*, **423**, 8
Shuttle's wonder worms make it back to NASA in one piece, *News in brief*, **423**, 108
NASA aims high with orbital transport system, *News*, Reichhardt, T, **423**, 470
Mars attracts!, *News feature*, Giles, J, **423**, 473
The comeback kids, *News feature*, Reichhardt, T, **423**, 477
Cost-cutting reflected in shrinking mirror, *News in brief*, **423**, 578
Engineers' concerns to be heeded as NASA aims for safer shuttle, *News in brief*, **423**, 794
Laser breakdown takes satellite's eye off the ice, *News in brief*, **424**, 244
NASA on board as search for intelligent life takes off again, *News in brief*, **424**, 244
NASA to set up safety centre in wake of shuttle crash, *News in brief*, **424**, 362
Satellites aim to shake up quake predictions, *News*, Reichhardt, T, **424**, 478
Court rule against NASA over Hawaiian telescope, *News in brief*, **424**, 480
Hubble versus the future, *Opinion*, **424**, 599
NASA under pressure to extend Hubble's life, *News*, Reichhardt, T, **424**, 603
NASA braced for culture shock as Columbia inquiry reaches verdict, *News*, Reichhardt, T, **424**, 863
NASA panel sees starry future for Hubble telescope, *News in brief*, **424**, 868
Honesty and denial at NASA, *Opinion*, **425**, 1
Columbia inquiry prompts White House strategy review, *News*, Reichhardt, T, **425**, 4
Compass test helps solar sailors reach for the stars, *News in brief*, **425**, 114
Second astronaut given NASA's top science job, *News in brief*, **425**, 115
Flight veteran embraces NASA's science wing, *News*, Reichhardt, T, **425**, 229
Galileo gears up for swansong as crash-landing looms, *News*, Moore, J, **425**, 229
NASA boldly goes into the world of academia, *News in brief*, **425**, 337
Radiation lab brings space studies on-beam, *News in brief*, 425, 756
US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887
NASA turns sub firm in nuclear power play, *News in brief*, **425**, 892
Unstoppable force, *News feature*, Reichhardt, T, **426**, 380
Lunar dreams, again, *Opinion*, **426**, 589
Cosmology: Welcome to the real world, *News feature*, Brumfiel, G, **426**, 751
NASA: Trawling through the wreckage, *News feature*, Reichhardt, T, **426**, 754
National Oceanic and Atmospheric Administration, Panel calls for sea change to fisheries policy, *News*, Gewin, V, **423**, 577
Native American Peoples, Heavy fine for light-fingered archaeologist, *News in brief*, **421**, 103
High-altitude observatory meets mounting opposition, *News in brief*, **421**, 103
Court rules in favour of research on Kennewick Man, *News in brief*, **421**, 202
Stargazers win heated battle over Native American site, *News in brief*, **421**, 466
The coast road, *News feature*, Dalton, R, **422**, 10
Telescope loses space to Native American site, *News in brief*, **423**, 8
Museum trustees quit after row over sale of artefacts, *News*, Dalton, R, **424**, 360
Tracking the first Americans, *News and views*, Dillehay, T D, **425**, 23
Craniometric evidence for Palaeoamerican survival in Baja California, *Letter to Nature*, González-José, R, González-Martin, A, Hernández, M, Pucciarelli, H M, Sardi, M, Rosales, A, Van der Molen, S, **425**, 62
natural disasters, Insurers left reeling by disaster year, *News*, Schiermeier, Q, **421**, 99
Avalanche!, *News feature*, Schiermeier, Q, **421**, 887
Impossible Extinction: Natural Catastrophes and the Supremacy of the Microbial World, Cockell, C C, *Book review by* Sleep, N H, **422**, 663
NASA feels the heat as glacier pictures cause unrest in Peru, *News in brief*, **422**, 794
When Life Nearly Died: The Greatest Mass Extinction of All Time, Benton, M, *Book review by* Bowler, P J, **423**, 384
Monsoon rains start to ease India's drought, *News*, Jayaraman, K S, **423**, 673
Quake triggers research expedition, *News*, Butler, D, **423**, 673
Our Final Hour: A Scientist's Warning: How Terror, Error, and Environmental Disaster Threatens Humankind's Future in the Century — On Earth and Beyond/Our Final Center: Will the Human Race Survive the Twenty-First Century?, Rees, M, *Book review by* Brownlee, D, **423**, 803
Earthquake makes waves for tsunami models, *News*, Cyranoski, D, **425**, 649
Earthquakes: Good tidings, *News and views*, Scholz, C H, **425**, 670
natural gas hydrates, Fundamental principles and applications of natural gas hydrates, *Insight review article*, Sloan Jr, E D, **426**, 353
natural history, The price of collecting life, *Commentary*, Smith, G F, Steenkamp, Y, Klopper, R R, Siebert, S J, Arnold, T H, **422**, 375
Natural history collections in crisis as funding is slashed, *News*, Dalton, R, **423**, 575
Safe home planned for Iowa herbarium, *Correspondence*, Lilien, J, **425**, 121
natural killer cells, Selection of evolutionarily conserved mucosal associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Al faticati, P, Gilfillan, S, Lantz, O, **422**, 164
The unsung heroes, *Concepts*, Parham, P, **423**, 20

Corrigendum: Selection of evolutionary conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **423**, 1018
natural laws, Cassell's Laws of Nature: An A–Z of Laws and Principles Governing the Workings of Our Universe/The Nature of Science: An A–Z Guide to the Laws and Principles Governing Our Universe, Trefil, J, *Book review by* Gratzer, W, **421**, 578
natural selection, Complexity may teach us a simple lesson, *Correspondence*, Sierk, M, **421**, 573
Darwin's Blind Spot: Evolution Beyond Natural Selection, Ryan, F, *Book review by* Frank, S, A, **421**, 579
Corrigendum: Contemporary fisherian life-history evolution in small salmonid populations, *Letter to Nature*, Koskinen, M T, Haugen, T O, Primmer, C R, **421**, 656
The double puzzle of diabetes, *News and views feature*, Diamond, J, **423**, 599
Evolutionary biology: Genes to make a new species, *News and views*, Noor, M A F, **423**, 699
Sex Wars: Genes, Bacteria, and Biased Sex Ratios, Majerus, M E N, *Book review by* Arnqvist, G, **424**, 616
Nature, Nature in 2003, *Editorial*, **421**, 1
Nature's founder gains mark of recognition, *News in brief*, **421**, 307
How to publish in *Nature*, *Editorial*, **421**, 769
Retractions' realities, *Editorial*, **422**, 1
New access for agriculture, *Opinion*, **425**, 749
nature philosophy, Complexity may teach us a simple lesson, *Correspondence*, Sierk, M, **421**, 573
Nature Reviews Microbiology, Here, there and everywhere, *Opinion*, **425**, 107
Nature Structural & Molecular Biology, A new home for molecular biologists, *Opinion*, **426**, 589
navigation, Neuroscience: Going to town, *News and views*, Pilcher, H R, **422**, 132
Europe's global navigation system heads east, *News in brief*, **425**, 337
navigation, animals, The lobster navigators, *News and views*, Alerstam, T, **421**, 27
True navigation and magnetic maps in spiny lobsters, *Letter to Nature*, Boles, L C, Lohmann, K J, **421**, 60
Animal behaviour: Homing is a breeze for sea turtles, *News and views*, Sims, D W, **423**, 128
Nazi era, Letters reveal scale of German agency's Nazi corruption, *News*, Schiermeier, Q, **425**, 650
Neanderthals, Manual dexterity in Neanderthals, *Brief communication*, Niewoehner, W A, Bergstrom, A, Eichele, D, Zuroff, M, Clark, J T, **422**, 395
Genetics to unlock secrets of our African past, *News*, Cherry, M, **422**, 460
Portrait of the Artist as a Child: The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context, Zilhao, J, Trinkaus, E, *Book review by* Bahn, P, **424**, 490
near-Earth asteroids, Astronomy: Asteroids warm to analysis, *News and views*, Clarke, T, **426**, 242
near-Earth objects, No reduction in risk of a massive asteroid impact, *Correspondence*, Chapman, C R, Morrison, D, **421**, 473
near-infrared background radiation, Cosmology: The helium legacy of dead stars, *News and views*, Ball, P, **422**, 275
Near-infrared flares from accreting gas around the supermassive black hole at the Galactic Centre, *Letter to Nature*, Genzel, R, Schödel, R, Ott, T, Eckart, A, Alexander, T, Lacombe, F, Rouan, D, Aschenbach, B, **425**, 934
NEDD8 protein, Insights into the ubiquitin transfer cascade from the structure of the activating enzyme for NEDD8, *Letter to Nature*, Walden, H, Podgorski, M S, Schulman, B A, **422**, 330
Nef proteins, HIV-1 Nef intersects the macrophage CD40L signalling pathway to promote resting-cell infection, *Letter to Nature*, Swingler, S, Brichacek, B, Jacque, J-M, Ulich, C, Zhou, J, Stevenson, M, **424**, 213
negative refraction, Optics: Positively negative, *News and views*, Pendry, J, **423**, 22
negative results, Null and void, *News feature*, Knight, J, **422**, 554
nematic liquid crystals, Observation of surface and bulk phase transitions in nematic liquid crystals, *Letter to Nature*, Boamfa, M I, Kim, M W, Mann, J C, Rasing, Th, **421**, 149
Nematostella vectensis, An ancient role for nuclear β-catenin in the evolution of axial polarity and germ layer segregation, *Letter to Nature*, Wikramanayake, A H, Hong, M, Lee, P N, Pang, K, Byrum, C A, Bince, J M, Xu, R, Martindale, M Q, **426**, 446
Neogloboquadrina pachyderma, Palaeoceanographic implications of genetic variation in living North Atlantic *Neogloboquadrina pachyderma*, *Letter to Nature*, Bauch, D, Darling, K, Simstich, J, Bauch, H A, Erienkeuser, H, Kroon, D, **424**, 299
Neolithic period, Archaeology: Sharp shift in diet at onset of Neolithic, *Brief communication*, Richards, M P, Schulting, R J, Hedges, R E M, **425**, 366
Neoproterozoic era, Stable isotopic evidence for methane seeps in Neoproterozoic postglacial cap carbonates, *Letter to Nature*, Jiang, G, Kennedy, M J, Christie-Blick, N, **426**, 822
Neptune, Planetary science: Kuiper-belt interlopers, *News and views*, Morbidelli, A, Levison, H F, **422**, 30
The formation of the Kuiper belt by the outward transport of bodies during Neptune's migration, *Letter to Nature*, Levison, H F, Morbidelli, A, **426**, 419
nerve gas, Nerve-gas experiments will not go to court, *News in brief*, **424**, 244
nerve growth, Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning, *Letter to Nature*, Nishiyama, M, Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-m, Hong, K, **423**, 990
nerve injury, P2X$_4$ receptors induced in spinal microglia gate tactile allodynia after nerve injury, *Letter to Nature*, Tsuda, M, Shigemoto-Mogami, Y, Koizumi, S, Mizokoshi, A, Kohsaka, S, Salter, M W, Inoue, K, **424**, 778
nervous system, Inflammation: A nervous connection, *News and views*, Libert, C, **421**, 328
Developmental biology: Guidance molecule goes global, *News and views*, Schuldt, A, **422**, 125
Opposing basal ganglia processes shape midbrain visuomotor activity bilaterally, *Letter to Nature*, Jiang, H, Stein, B E, McHaffie, J G, **423**, 982
Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition, *Letter to Nature*, Buffelli, M, Burgess, R W, Feng, G, Lobe, C G, Lichtman, J W, Sanes, J R, **424**, 430
New player in pain, *News and views*, McCleskey, E W, **424**, 729
Net-Lander, France purges space programme in bid to survive budget crisis, *News*, Butler, D, **423**, 103
Netherlands, Chicken flu races through Dutch poultry farms, *News*, Abbott, A, **422**, 247
Spread of bird flu triggers Dutch Easter egg hunt, *News in brief*, **422**, 552
netrin-1, Developmental biology: Guidance molecule goes global, *News and views*, Schuldt, A, **422**, 125
networks, Six Degrees: The Science of a Connected Age, Watts, D J, *Book review by* Adamic, L, **422**, 265
Neubert, Hans, Behind the wall, *Science in culture*, Abbott, A, **423**, 226
neural networks, Inhibitory feedback required for network oscillatory responses to communication but not prey stimuli, *Letter to Nature*, Doiron, B, Chacron, M J, Maler, L, Longtin, A, Bastian, J, **421**, 539
Neurobiology: Interneurons take charge, *News and views*, Moser, E I, **421**, 797
Brain-state- and cell-type-specific firing of hippocampal interneurons *in vivo*, *Letter to Nature*, Klausberger, T, Magill, P J, Márton, L F, Roberts, J D B, Cobden, P M, Buzsáki, G, Somogyi, P, **421**, 844
Attractor dynamics of network UP states in the neocortex, *Letter to Nature*, Cossart, R, Aronov, D, Yuste, R, **423**, 283
Turning on and off recurrent balanced cortical activity, *Letter to Nature*, Shu, Y, Hasenstaub, A, McCormick, D A, **423**, 288
neural stem cells, *Bmi-1* dependence distinguishes neural stem cell self-renewal from progenitor proliferation, *Letter to Nature*, Molofsky, A V, Pardal, R, Iwashita, T, Park, I-K, Clarke, M F, Morrison, S J, **425**, 962
neurexins, Neurobiology: Synapses unplugged, *News and views*, Littleton, J T, Sheng, M, **423**, 931
α-Neurexins couple Ca^{2+} channels to synaptic vesicle exocytosis, *Article*, Missler, M, Zhang, W, Rohlmann, A, Kattenstroth, G, Hammer, R E, Gottmann, K, Sudhof, T C, **423**, 939
neuroaesthetics, Meeting aims to find brain's benchmarks for beauty, *News*, Knight, J, **421**, 305
neuroanatomy, Neuroanatomy of flying reptiles and implications for flight, posture and behaviour, *Letter to Nature*, Witmer, L M, Chatterjee, S, Franzosa, J, Rowe, T, **425**, 950
neurobiology, Neurobiology: The importance of depression, *News and views*, Stevens, C F, **421**, 29
Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **421**, 66
Neurobiology: Fear thou not, *News and views*, Dudai, Y, **421**, 325
Neuronal synchrony does not correlate with motion coherence in cortical area MT, *Letter to Nature*, Thiele, A, Stoner, G, **421**, 366
Neurobiology: Stem cells stop dead, *News and views*, Pearson, H, **421**, 597
Neurobiology: Interneurons take charge, *News and views*, Moser, E I, **421**, 797
Neurobiology: Firing patterns add up, *News and views*, Pearson, H, **421**, 804
Brain-state- and cell-type-specific firing of hippocampal interneurons *in vivo*, *Letter to Nature*, Klausberger, T, Magill, P J, Márton, L F, Roberts, J D B, Cobden, P M, Buzsáki, G, Somogyi, P, **421**, 844
Cell polarity: From embryo to axon, *News and views*, Rolls, M M, Doe, C Q, **421**, 905
Audiovisual perception: Implicit estimation of sound-arrival time, *Brief communication*, Sugita, Y, Suzuki, Y, **421**, 911
Neurobiology: Ballads of a protein quartet, *News and views*, Mattson, M P, **422**, 385
Neurobiology: Spine conducts hip-hop, *News and views*, Pearson, H, **422**, 393
Neurobiology: Dopamine as chicken and egg, *News and views*, Self, D, **422**, 573
Subsecond dopamine release promotes cocaine seeking, *Letter to Nature*, Phillips, P E M, Stuber, G D, Heien, M L A V, Wightman, R M, Carelli, R M, **422**, 614
Cell biology: Torpedo smart gel, *News and views*, Pilcher, H R, **423**, 30
In search of a miracle, *News feature*, Pearson, H, **423**, 112
Corrigendum: Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **423**, 197
All change at the synapse, *News and views*, Rizzoli, S O, Betz, W J, **423**, 591
Neurobiology: Muscle molecule in myelin moderation, *News and views*, Pilcher, H R, **423**, 820
Neurobiology: Synapses unplugged, *News and views*, Littleton, J T, Sheng, M, **423**, 931
Neurobiology: Wiring the brain, *News and views*, Pearson, H, **423**, 935
Neurobiology: Caught in the act, *News and views*, Dudai, Y, **424**, 377
Neurobiology: A new way to network, *News and views*, Mehlen, P, **424**, 381
Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function, *Article*, Serini, G, Valdembri, D, Zanivan, S, Morterra, G, Burkhardt, C, Caccavari, F, Zammataro, L, Primo, L, Tamagnone, L, Logan, M, Tessier-Lavigne, M, Taniguchi, M, Püschel, A W, Bussolino, F, **424**, 391
Neurobiology: Motor proteins branch out, *News and views*, Tromans, A, **424**, 503
Neurobiology: Whisked to perfection by serotonin, *News and views*, Pilcher, H R, **424**, 507
Neurobiology: A thorny issue, *News and views*, Seeburg, P H, Osten, P, **424**, 627
Neurobiology: Untangling tau, *News and views*, Craven, R, **424**, 898
Neurobiology: The eyes have it, *News and views*, Tromans, A, **425**, 143
Neurobiology: Backchat at the synapse, *News and views*, Salinas, P C, **425**, 464
Double trouble for neurons, *News and views*, Fortini, M E, **425**, 565
Neurobiology: Alzheimer's enzyme target, *News and views*, Pearson, H, **425**, 678
Neurobiology: Signals that make waves, *News and views*, Reichardt, L F, **426**, 25
Truncated TrkB-T1 mediates neurotrophin-evoked calcium signalling in glia cells, *Letter to Nature*, Rose, C R, Blum, R, Pichler, B, Lepier, A, Kafitz, K W, Konnerth, A, **426**, 74
Neurobiology: Amnesia in ageing flies, *News and views*, Heemels, M-T, **426**, 784
neuroblasts, Developmental biology: Clocking the birth of neurons, *News and views*, Harris, W A, **425**, 568
Regulation of neuroblast competence in *Drosophila*, *Letter to Nature*, Pearson, B J, Doe, C Q, **425**, 624
neurodegeneration, Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration, *Letter to Nature*, Liou, Y-C, Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P, **424**, 556
Loss of Omi mitochondrial protease activity causes the neuromuscular disorder of *mnd2* mutant mice, *Letter to Nature*, Jones, J M, Datta, P, Srinivasula, S M, Ji, W, Gupta, S, Zhang, Z J, Davies, E, Hajnoczky, G, Saunders, T L, Van Keuren, M L, Fernandes-Alnemri, T, Meisler, M H, Alnemri, E S, **425**, 721
Folding proteins in fatal ways, *Insight review article*, Selkoe, D J, **426**, 900
neurodegenerative disorders, Pivotal role of oligomerization in expanded polyglutamine neurodegenerative disorders, *Letter to Nature*, Sánchez, I, Mahike, C, Yuan, J, **421**, 373
neuroeconomics, Decisions, Uncertainty, and the Brain: The Science of Neuroeconomics, Glimcher, P W, *Book review by* Montague, P R, **424**, 371
neuroengineering, Silence of the neuroengineers, *Opinion*, **423**, 787
Remote control, *News feature*, Hoag, H, **423**, 796
Military: brain machine could benefit millions, *Correspondence*, Rudolph, A, **424**, 369
Military-funded research is not unethical, *Correspondence*, Rizzuto, D S, Breznen, B, Greger, B, **424**, 369
neurofibrillary tangles, Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration, *Letter to Nature*, Liou, Y-C, Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P, **424**, 556
Neurobiology: Untangling tau, *News and views*, Craven, R, **424**, 898
neuromuscular junction, Neurobiology: Backchat at the synapse, *News and views*, Salinas, P C, **425**, 464
neurons, Neurobiology: Firing patterns add up, *News and views*, Pearson, H, **421**, 804
Cell polarity: From embryo to axon, *News and views*, Rolls, M M, Doe, C Q, **421**, 905
Neurobiology: Ballads of a protein quartet, *News and views*, Mattson, M P, **422**, 385
Developmental biology: How neurons avoid derailment, *News and views*, Garrity, P A, **422**, 570
Attractor dynamics of network UP states in the neocortex, *Letter to Nature*, Cossart, R, Aronov, D, Yuste, R, **423**, 283
Turning on and off recurrent balanced cortical activity, *Letter to Nature*, Shu, Y, Hasenstaub, A, McCormick, D A, **423**, 288
Cortex and Mind: Unifying Cognition, Fuster, J M, *Book review by* Martin, K, **423**, 383
Three modes of synaptic vesicular recycling revealed by single-vesicle imaging, *Article*, Gandhi, S P, Stevens, S F, **423**, 607
Neurobiology: Synapses unplugged, *News and views*, Littleton, J T, Sheng, M, **423**, 931
Opposing basal ganglia processes shape midbrain visuomotor activity bilaterally, *Letter to Nature*, Jiang, H, Stein, B E, McHaffie, J G, **423**, 982
Mapping stimulus features in the population response of visual cortex, *Letter to Nature*, Basole, A, White, L E, Fitzpatrick, D, **423**, 986
Neurobiology: A new way to network, *News and views*, Mehlen, P, **424**, 381
The role of neuronal identity in synaptic competition, *Letter to Nature*, Kasthuri, N, Lichtman, J W, **424**, 426
Organization of cell assemblies in the hippocampus, *Letter to Nature*, Harris, K D, Csicsvari, J, Hirase, H, Dragol, G, Buzsáki, G, **424**, 552

Neurobiology: A thorny issue, *News and views*, Seeburg, P H, Osten, P, **424**, 627
Neuronal populations and single cells representing learned auditory objects, *Letter to Nature*, Gentner, T Q, Margoliash, D, **424**, 669
Developmental biology: Clocking the birth of neurons, *News and views*, Harris, W A, **425**, 568
Motor neuron columnar fate imposed by sequential phases of Hox-c activity, *Article*, Dasen, J S, Liu, J-P, Jessell, T M, **425**, 926
Balanced inhibition underlies tuning and sharpens spike timing in auditory cortex, *Letter to Nature*, Wehr, M, Zador, A M, **426**, 442

neuropathy, Trans-synaptic shift in anion gradient in spinal lamina I neurons as a mechanism of neuropathic pain, *Letter to Nature*, Coull, J A M, Boudreau, D, Bachand, K, Prescott, S A, Nault, F, Sik, A, De Koninck, P, De Koninck, Y, **424**, 938

neurophilosophy, Brain-Wise: Studies in Neurophilosophy, Smith Churchland, P, *Book review by* Noe, A, **423**, 805

neurophysiology, Selective gating of visual signals by microstimulation of frontal cortex, *Letter to Nature*, Moore, T, Armstrong, K M, **421**, 370

neuroscience, Cécile and Oskar Vogt: The Visionaries of Modern Neuroscience, Klatzo, I, Zu Rhein, G, *Book review by* Jones, E G, **421**, 19
Erratum: An ultra-sparse code underlies the generation of neural sequences in a songbird, *Letter to Nature*, Hahnloser, R H R, Kozhevnikov, A A, Fee, M S, **421**, 294
Meeting aims to find brain's benchmarks for beauty, *News*, Knight, J, **421**, 305
Neuroscientists cruise for research-centre funding, *News in brief*, **421**, 682
Neuroscience: Going to town, *News and views*, Pilcher, H R, **422**, 132
Crick's immodest ambitions, *Opinion*, **422**, 455
Memory From A to Z, Dudai, Y, *Book review by* Squire, L R, **423**, 119
Attractor dynamics of network UP states in the neocortex, *Letter to Nature*, Cossart, R, Aronov, D, Yuste, R, **423**, 283
Turning on and off recurrent balanced cortical activity, *Letter to Nature*, Shu, Y, Hasenstaub, A, McCormick, D A, **423**, 288
Brazilian brain experts plan research village, *News*, Hoag, H, **423**, 372
Three modes of synaptic vesicular recycling revealed by single-vesicle imaging, *Article*, Gandhi, S P, Stevens, S F, **423**, 607
Single synaptic vesicles fusing transiently and successively without loss of identity, *Letter to Nature*, Aravanis, A M, Pyle, J L, Tsien, R W, **423**, 643
Remote control, *News feature*, Hoag, H, **423**, 796
Brain-Wise: Studies in Neurophilosophy, Smith Churchland, P, *Book review by* Noe, A, **423**, 805
Preliminary inquiry clears brain scientist of fraud allegation, *News*, Abbott, A, **424**, 243
A new atlas of the brain, *News feature*, Abbott, A, **424**, 249
Military: brain machine could benefit millions, *Correspondence*, Rudolph, A, **424**, 369
Decisions, Uncertainty, and the Brain: The Science of Neuroeconomics, Glimcher, P W, *Book review by* Montague, P R, **424**, 371
US neuroscience institute fills directorship at last, *News in brief*, **424**, 716
Neuroscience: Of mice and mentality, *News and views*, Blinkhorn, S, **424**, 1004
Neuroscience: How to forget, *News and views*, Pilcher, H H, **424**, 1011
Software mogul turns to mouse for genetic atlas of the brain, *News*, Dalton, R, **425**, 226
Neuroscience: Re-recording human memories, *News and views*, Nader, K, **425**, 571
Neuroscience: Transport delays, *News and views*, Pilcher, H R, **425**, 573
Restless nights, listless days, *News feature*, Abbott, A, **425**, 896
Neuroscience: States of mind, *News and views*, Ringach, D L, **425**, 912
The Cognitive Neuroscience of Music, Peretz, I, Zatorre, R, *Book review by* Janata, P, **426**, 386
Neuroscience: Genomics on the brain, *News feature*, Abbott, A, **426**, 757
A magnificent seven, *News and views*, Lincoln, T, **426**, 773

Neurospora crassa, Role for antisense RNA in regulating circadian clock function in *Neurospora crassa*, *Letter to Nature*, Kramer, C, Loros, J L, Dunlap, J C, Crosthwaite, S K, **421**, 948
Revelations from a bread mould, *News and views*, Arnold, J, Hilton, N, **422**, 821
The genome sequence of the filamentous fungus *Neurospora crassa*, *Article*, Galagan, J E, Calvo, S E, Borkovich, K A, Selker, E U, Read, N D, Jaffe, D, FitzHugh, W, Ma, L-J, Smirnov, S, Purcell, S, Rehman, B, Elkins, T, Engels, R, Wang, S, Nielsen, C B, Butler, J, Endrizzi, M, Qui, D, Ianakiev, P, Bell-Pedersen, D, Nelson, M A, Werner-Washburne, M, Selitrennikoff, C P, Kinsey, J A, Braun, E L, Zelter, A, Schulte, U, Kothe, G O, Jedd, G, Mewes, W, Staben, C, Marcotte, E, Greenberg, D, Roy, A, Foley, K, Naylor, J, Stange-Thomann, N, Barrett, R, Gnerre, S, Kamal, M, Kamvysselis, M, Mauceli, E, Bielke, C, Rudd, S, Frishman, D, Krystofova, S, Rasmussen, C, Metzenberg, R L, Perkins, D D, Kroken, S, Cogoni, C, Macino, G, Catcheside, D, Li, W, Pratt, R J, Osmani, S A, DeSouza, C P C, Glass, L, Orbach, M J, Berglund, J A, Voelker, R, Yarden, O, Plamann, M, Seiler, S, Dunlap, J, Radford, A, Aramayo, R, Natvig, D O, Alex, L A, Mannhaupt, G, Ebbole, D J, Freitag, M, Paulsen, I, Sachs, M S, Lander, ES, Nusbaum, C, Birren, B, **422**, 859
The methylated component of the *Neurospora crassa* genome, *Letter to Nature*, Selker, E U, Tountas, N A, Cross, S H, Margolin, B S, Murphy, J G, Bird, A P, Freitag, M, **422**, 893
Fungus work flourishes in ashes of forest fires, *News in brief*, **425**, 8

neurotransmission, Neurobiology: Synapses unplugged, *News and views*, Littleton, J T, Sheng, M, **423**, 931
α-Neurexins couple Ca^{2+} channels to synaptic vesicle exocytosis, *Article*, Missler, M, Zhang, W, Rohlmann, A, Kattenstroth, G, Hammer, R E, Gottmann, K, Sudhof, T C, **423**, 939
Structure and gating mechanism of the acetylcholine receptor pore, *Article*, Miyazawa, A, Fujiyoshi, Y, Unwin, N, **423**, 949
Synaptotagmin I is necessary for compensatory synaptic vesicle endocytosis in vivo, *Letter to Nature*, Poskanzer, K E, Marek, K W, Sweeney, S T, Davis, G W, **426**, 559

neurotransmitters, Cell biology: Torpedo smart gel, *News and views*, Pilcher, H R, **423**, 30
All change at the synapse, *News and views*, Rizzoli, S O, Betz, W J, **423**, 591
Three modes of synaptic vesicular recycling revealed by single-vesicle imaging, *Article*, Gandhi, S P, Stevens, S F, **423**, 607
Single synaptic vesicles fusing transiently and successively without loss of identity, *Letter to Nature*, Aravanis, A M, Pyle, J L, Tsien, R W, **423**, 643
The role of neuronal identity in synaptic competition, *Letter to Nature*, Kasthuri, N, Lichtman, J W, **424**, 426
Direct modulation of synaptic vesicle priming by $GABA_B$ receptor activation at a glutamatergic synapse, *Letter to Nature*, Sakaba, T, Neher, E, **424**, 775
Neurobiology: Backchat at the synapse, *News and views*, Salinas, P C, **425**, 464

neurotransmitter systems, Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition, *Letter to Nature*, Buffelli, M, Burgess, R W, Feng, G, Lobe, C G, Lichtman, J W, Sanes, J R, **424**, 430

neurotrophins, Neurobiology: Signals that make waves, *News and views*, Reichardt, L F, **426**, 25
Truncated TrkB-T1 mediates neurotrophin-evoked calcium signalling in glia cells, *Letter to Nature*, Rose, C R, Blum, R, Pichler, B, Lepier, A, Kafitz, K W, Konnerth, A, **426**, 74

Neuschwanstein meteorite, Photographic observations of Neuschwanstein, a second meteorite from the orbit of the Příbram chondrite, *Letter to Nature*, Spurný, P, Oberst, J, Heinlein, D, **423**, 151

neutral drift, Stability of forest biodiversity, *Letter to Nature*, Clark, J S, McLachlan, J S, **423**, 635

neutral theory, Ecology: Tail of death and resurrection, *News and views*, Harte, J, **424**, 1006
Neutral theory and relative species abundance in ecology, *Letter to Nature*, Volkov, I, Banavar, J R, Hubbell, S P, Martian, A, **424**, 1035

neutralizing antibodies, Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **422**, 307
Erratum: Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **423**, 197

neutrinos, Now you see them, now you don't, *News and views*, Wark, D, **421**, 485
Hunts for neutrinos and hominids pay off, *News in brief*, **422**, 366
Pollution fears put work at neutrino laboratory on hold, *News*, Nosengo, N, **423**, 675
India plans to bring neutrino science home, *News*, Jayaraman, K S, **423**, 909
Neutrino lab back on track after toxic leak, *News in brief*, **423**, 910
Fermilab digs deep in bid to study neutrinos, *News in brief*, **424**, 869
Nobel winner helps particle project get back on beam, *News in brief*, **426**, 746

neutron bomb, A dose of the bomb, *News and views*, Little, M P, **424**, 495
Measuring fast neutrons in Hiroshima at distances relevant to atomic-bomb survivors, *Letter to Nature*, Straume, T, Rugel, G, Marchetti, A A, Ruhm, W, Korschinek, G, McAninch, J E, Carroll, K, Egbert, S, Faestermann, T, Knie, K, Martinelli, R, Wallner, A, Wallner, C, **424**, 539

neutron spectroscopy, Obituary: Bertram N. Brockhouse (1918–2003), *News and views*, Timusk, T, **426**, 617

neutron stars, Astronomy: New direction for γ-rays, *News and views*, Waxman, E, **423**, 388
Astrophysics: Superficial resonance, *News and views*, Paerels, F, **423**, 697
The magnetic field of an isolated neutron star from X-ray cyclotron absorption lines, *Letter to Nature*, Bignami, G F, Caraveo, P A, De Luca, A, Mereghetti, S, **423**, 725
Astronomy: Heartbeats of a neutron star, *News and views*, Wagoner, R V, **424**, 27
Nuclear-powered millisecond pulsars and the maximum spin frequency of neutron stars, *Letter to Nature*, Chakrabarty, D, Morgan, E H, Muno, M P, Galloway, D K, Wijnands, R, van der Klis, M, Markwardt, C B, **424**, 42
Quasi-periodic X-ray brightness fluctuations in an accreting millisecond pulsar, *Letter to Nature*, Wijnands, R, van der Klis, M, Homan, J, Chakrabarty, D, Markwardt, C B, Morgan, E H, **424**, 44
Astrophysics: Testing time for gravity, *News and views*, van den Heuvel, E P J, **426**, 504
An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system, *Letter to Nature*, Burgay, M, D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R, **426**, 531

neutrons, Fading support ends Europe's dreams of neutron supremacy, *News*, Schiermeier, Q, **421**, 563
Britain shuts door on extra neutron source, *News in brief*, **422**, 654
Bose–Einstein condensation of the triplet states in the magnetic insulator TICuCl,, *Letter to Nature*, Rüegg, Ch, Cavadini, N, Furrer, A, Güdel, H-U, Krämer, K, Mutka, H, Wildes, A, Habicht, K, Vorderwisch, P, **423**, 62
Britain takes fresh look at spallation source, *News in brief*, **424**, 244
Nuclear physics: It's a knockout, *News and views*, Warner, D, **425**, 570

neutrons, ultracold, Neutron source powers ahead with weapons-grade uranium, *News*, Schiermeier, Q, **423**, 5

New England Journal of Medicine, Paper retracted as co-author admits forgery, *News*, Adam, D, **421**, 775
Open-access row leads paper to shed authors, *News*, Butler, D, **425**, 334

New Partnership for Africa's Development, African states pledge increased spending on research, *News*, Cherry, M, **426**, 109

new species, The coelacanth of frogs, *News and views*, Hedges, S B, **425**, 669
New frog family from India reveals an ancient biogeographical link with the Seychelles, *Letter to Nature*, Biju, S D, Bossuyt, F, **425**, 711

New Zealand, moa, Extreme reversed sexual size dimorphism in the extinct New Zealand moa Dinornis, *Letter to Nature*, Bunce, M, Worthy, T H, Ford, T, Hoppitt, W, Willerslev, E, Drummond, A, Cooper, A, **425**, 172
Nuclear DNA sequences detect species limits in ancient moa, *Letter to Nature*, Huynen, L, Millar, C D, Scofield, R P, Lambert, D M, **425**, 175

Newton, Isaac, Apocalyptic vision sees Newton book a date for doomsday, *News in brief*, **421**, 882
The weight of expectation, *News and views*, Hoyle, C D, **421**, 899

Next Generation Long-Baseline Neutrino Oscillation Experiment, Nobel winner helps particle project get back on beam, *News in brief*, **426**, 746

NF-κB, Cancer: More than skin deep, *News and views*, Bolotin, D, Fuchs, E, **421**, 594
NF-κB blockade and oncogenic Ras trigger invasive human epidermal neoplasia, *Letter to Nature*, Dajee, M, Lazarov, M, Zhang, J Y, Cai, Ti, Green, C L, Russell, A J, Marinkovich, M P, Tao, S, Lin, Q, Kubo, Y, Khavari, P A, **421**, 639
Histone H3 phosphorylation by IKK-a is critical for cytokine-induced gene expression, *Letter to Nature*, Yamamoto, Y, Verma, U N, Prajapati, S, Kwak, Y-T, Gaynor, R B, **423**, 655
A nucleosomal function for IκB kinase-α in NF-κB-dependent gene expression, *Letter to Nature*, Anest, V, Hanson, J L, Cogswell, P C, Steinbrecher, K A, Strahl, B D, Baldwin, A S, **423**, 659
CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members, *Letter to Nature*, Trompouki, E, Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G, **424**, 793
Loss of the cylindromatosis tumour suppressor inhibits apoptosis by activating NF-κB, *Letter to Nature*, Brummelkamp, T R, Nijman, S M B, Dirac, A M G, Bernards, R, **424**, 797
The tumour suppressor CYLD negatively regulates NF-κB signalling by deubiquitination, *Letter to Nature*, Kovalenko, A, Chable-Bessia, C, Cantarella, G, Israel, A, Wallach, D, Courtois, G, **424**, 801

NF-κB protein, Signal transduction: A regulator branches out, *News and views*, Israël, A, **423**, 596
Signal transduction: Aspirin, ubiquitin and cancer, *News and views*, Wilkinson, K D, **424**, 738

NF-κB transcription factor, Immunology: Vaccinia on the Toll road, *News and views*, Heemels, M-T, **421**, 907

NGC5253, An extragalactic supernebula confined by gravity, *Letter to Nature*, Turner, J L, Beck, S C, Crosthwaite, L P, Larkin, J E, McLean, I S, Meier, D S, **423**, 621

nicastrin, GSK-3α regulates production of Alzheimer's disease amyloid-β peptides, *Letter to Nature*, Phiel, C J, Wilson, C A, Lee, V M-Y, Klein, P S, **423**, 435

niche conservatism, Niche lability in the evolution of a Caribbean lizard community, *Letter to Nature*, Losos, J B, Leal, M, Glor, R E, de Queiroz, K, Hertz, P E, Rodriguez Schettino, L, Lara, A C, Jackman, T R, Larson, A, **424**, 542

niche construction, Niche Construction: The Neglected Process in Evolution, *Book review*, Odling-Smee, F J, Laland, K N, Feldman, M W, Keller, L, **425**, 769

niche diversity, Niche lability in the evolution of a Caribbean lizard community, *Letter to Nature*, Losos, J B, Leal, M, Glor, R E, de Queiroz, K, Hertz, P E, Rodriguez Schettino, L, Lara, A C, Jackman, T R, Larson, A, **424**, 542

niche specialization, Productivity-biodiversity relationships depend on the history of community assembly, *Letter to Nature*, Fukami, T, Morin, P J, **424**, 423

niche, stem-cell, Stem cells: Interactive niches, *News and views*, Lemischka, I R, Moore, K A, **425**, 778
Identification of the haematopoietic stem cell niche and control of the niche size, *Letter to Nature*, Zhang, J, Niu, C, Ye, L, Huang, H, He, X, Tong, W-G, Ross, J, Haug, J, Johnson, T, Feng, J Q, Harris, S, Wiedemann, L M, Mishina, Y, Li, L, **425**, 836

stem-cell research, Osteoblastic cells regulate the haematopoietic stem cell niche, *Letter to Nature*, Calvi, L M, Adams, G B, Weibrecht, K W, Weber, J M, Olson, D P, Knight, M C, Martin, R P, Schipani, E, Divieti, P, Bringhurst, F R, Milner, L A, Kronenberg, H M, Scadden, D T, **425**, 841

nickel, A conspicuous nickel protein in microbial mats that oxidize methane anerobically, *Letter to Nature*, Kruger, M, Meyerdierks, A, Glockner, F O, Amann, R, Widdel, F, Kube, M, Reinhardt, R, Kahnt, J, Bocher, R, Thauer, R K, Shima, S, **426**, 878

Nicotiana tabacum, Direct measurement of the transfer rate of chloroplast DNA into the nucleus, *Letter to Nature*, Huang, C Y, Ayliffe, M A, Timmis, J N, **422**, 72

nicotinamide, Nicotinamide and *PNC1* govern lifespan extension by calorie restriction in *Saccharomyces cerevisiae*, *Letter to Nature*, Andersen, R M, Bitterman, K J, Wood, J G, Medvedik, O, Sinclair, D A, **423**, 181

nidogen, Complex between nidogen and laminin fragments reveals a paradigmatic β-propeller interface, *Letter to Nature*, Takagi, J, Yang, Y, Liu, J-h, Wang, J-h, Springer, T A, **424**, 969

Nigeria, space exploration, Nigeria joins the space age with first satellite, *News in brief*, **425**, 442

NigeriaSat-1, Nigeria joins the space age with first satellite, *News in brief*, **425**, 442

nitinol, Materials science: Memories made in microstructure, *News and views*, Lobo, C, **423**, 30

nitrogen, Fertilized to death, *News feature*, Nosengo, N, **425**, 894

nitrogen cycle, Nitrogen cycle: Solution to a marine mystery, *News and views*, Devol, A H, **422**, 575

N_2 production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica, *Letter to Nature*, Dalsgaard, T, Canfield, D E, Petersen, J, Thamdrup, B, Acuña-González, J, **422**, 606

Anaerobic ammonium oxidation by anammox bacteria in the Black Sea, *Letter to Nature*, Kuypers, M M M, Sliekers, A O, Lavik, G, Schmid, M, Jorgensen, B B, Kuenen, J G, Sinninghe Damste, J S, Strous, M, Jetten, M S M, **422**, 608

nitrogen fixation, Plant biology: Mutual sanctions, *News and views*, Sprent, J, **422**, 672

Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis, *Letter to Nature*, Lodwig, E M, Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S, **422**, 722

Temperature excludes N_2-fixing heterocystous cyanobacteria in the tropical oceans, *Letter to Nature*, Staal, M, Meysman, F J R, Stal, L J, **425**, 504

Plant biology: Locks, keys and symbioses, *News and views*, Parniske, M, Downie, J A, **425**, 569

Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases, *Article*, Radutoiu, S, Madsen, L H, Madsen, E B, Felle, H H, Umehara, Y, Gronlund, M, Sato, S, Nakamura, Y, Tabata, S, Sandal, N, Stougaard, J, **425**, 585

A receptor kinase gene of the LysM type is involved in legume perception of rhizobial signals, *Letter to Nature*, Madsen, E B, Madsen, L H, Radutolu, S, Olbryt, M, Rakwalska, M, Szczyglowski, K, Sato, S, Kaneko, T, Tabata, S, Sandal, N, Stougaard, J, **425**, 637

nitrogen oxides, Atmospheric science: Ultraviolet light and leaf emission of NO_x, *Brief communication*, Hari, P, Raivonen, M, Vesala, T, Munger, J W, Pilegaard, K, Kulmala, M, **422**, 134

nitrogen storage, Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Stark, J M, Hart, S C, **423**, 137

Reply: Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Johnson, D, Campbell, C D, Lee, J A, Callaghan, T V, Gwynn-Jones, D, **423**, 138

nitrous oxide, Quantum physics: Seven atoms make a superfluid, *News and views*, Ball, P, **425**, 914

NOAA-N Prime spacecraft, Oops! Sorry we've dropped your satellite, *News in brief*, **425**, 230

Nobel laureates, Nobel winners rally against unilateral attack on Iraq, *News in brief*, **421**, 567

Nobel laureate slams misconduct smear, *News*, Schiermeier, Q, **421**, 773

When the fighting is over..., *Opinion*, **422**, 359

Crick's immodest ambitions, *Opinion*, **422**, 455

Wandering in the Gardens of the Mind: Peter Mitchell and the Making of Glynn, Prebble, J, Weber, B, *Book review by* Slater, E C, **422**, 816

How to Win the Nobel Prize: An Unexpected Life In Science, Bishop, J M, *Book review by* Hargittai, I, **423**, 921

Despite Franklin's work, Wilkins earned his Nobel, *Correspondence*, Zallen, D T, **425**, 15

Magnetic pioneers net Nobel for putting medicine in the picture, *News*, Pearson, H, **425**, 547

Help basic science, cry European Nobellists, *News in brief*, **425**, 552

Inspiring Science: Jim Watson and the Age of DNA, Inglis, J, Sambrook, J, Witkowski, J, *Book review by* Olby, R, **426**, 229

Nobel protester gets Swedish physics gong, *News in brief*, **426**, 596

Nobel winner helps particle project get back on beam, *News in brief*, **426**, 746

Membrane proteins: Channel voyager makes waves, *News feature*, Abbott, A, **426**, 755

Nobel prizes, Shimadzu sees sales rise after Nobel prize, *News in brief*, **421**, 306

Rocky Mountain high, *News feature*, Aldhous, P, **423**, 915

How to Win the Nobel Prize: An Unexpected Life In Science, Bishop, J M, *Book review by* Hargittai, I, **423**, 921

Haeckel's literary hopes dashed by materialism?, *Correspondence*, Hossfeld, U, Nöthlich, R, Olsson, L, **424**, 875

Super-cool theories secure physics prize, *News*, Tomlin, S, **425**, 548

Physician launches public protest over medical Nobel, *News*, Pearson, H, **425**, 648

Channel hoppers land chemistry Nobel, *News*, Giles, J, **425**, 651

Economics prize for duo who resolved random results, *News*, Ball, P, **425**, 651

Russian claims first in magnetic imaging, *News*, MacWilliams, B, **426**, 375

Is science losing out in the race for recognition, *Correspondence*, Friedman, R M, **426**, 495

Pioneers of Microbiology and the Nobel Prize, Lagerkvist, U, *Book review by* Bynum, W F, **426**, 604

noble gases, The 'zero charge' partitioning behaviour of noble gases during mantle melting, *Letter to Nature*, Brooker, R A, Du, Z, Blundy, J D, Kelley, S P, Allan, N L, Wood, B J, Chamorro, E M, Wartho, J-A, Purton, J A, **423**, 738

Chemistry: Krypton goes organic, *News and views*, Ball, P, **423**, 820

nociception, New player in pain, *News and views*, McCleskey, E W, **424**, 729

noggin, The BMP antagonist noggin regulates cranial suture fusion, *Letter to Nature*, Warren, S M, Brunet, L J, Harland, R M, Economides, A N, Longaker, M T, **422**, 625

noise, intracellular, Erratum: Control, exploitation and tolerance of intracellular noise, *Letter to Nature*, Rao, C V, Wolf, D M, Arkin, A P, **421**, 190

nomenclature, Systema Porifera: A Guide to the Classification of Sponges, Hooper, J N A, van Soest, R W M, *Book review by* Berry, L, **421**, 791

nonlinear dynamics, Nonlinear dynamics: Synchronization from chaos, *News and views*, Ashwin, P, **422**, 384

Nonlinear dynamics: Chaos relatively robust, *News and views*, Ball, P, **426**, 784

nonlinear optics, Nonlinear optics: Braking at room temperature, *News and views*, Ball, P, **422**, 487

nonlinear physics, Nonlinear physics: A brownian motor, *News and views*, Ball, P, **424**, 898

Norman, Jerry, Court studies biology papers in row over title, *News in brief*, **423**, 578

North Atlantic Current, The current climate, *Concepts*, Rahmstorf, S, **421**, 699

North Atlantic Deep Water, Palaeo-oceanography: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **422**, 277

correction: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **423**, 400

Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation, *Letter to Nature*, Knorr, G, Lohmann, G, **424**, 532

North Atlantic Ocean, Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean, *Letter to Nature*, Gupta, A K, Anderson, D M, Overpeck, J T, **421**, 354

Palaeoceanographic implications of genetic variation in living North Atlantic *Neogloboquadrina pachyderma*, *Letter to Nature*, Bauch, D, Darling, K, Simstich, J, Bauch, H A, Erienkeuser, H, Kroon, D, **424**, 299

North Atlantic Treaty Organisation (NATO), NATO reform promises more publicity for less science, *News*, Schiermeier, Q, **422**, 248

North Korea, Hope for best, prepare for worst, *Opinion*, **423**, 101

Asia's nuclear family, *News feature*, Cyranoski, D, Brumfiel, G, **423**, 110

North Pole, Digging in, *News feature*, Cyranoski, D, **426**, 492

North Sea, Plankton effect on cod recruitment in the North Sea, *Letter to Nature*, Beaugrand, G, Brander, K M, Lindley, J A, Souissi, S, Reid, P C, **426**, 661

northern Cascadia subduction zone, Reflection signature of seismic and aseismic slip on the northern Cascadia subduction interface, *Letter to Nature*, Nedimovic, M R, Hyndman, R D, Ramachandran, K, Spence, G D, **424**, 416

Notch, Involvement of *Notch* and *Delta* genes in spider segmentation, *Letter to Nature*, Stollewerk, A, Schoppmeier, M, Damen, W G M, **423**, 863

Delta-promoted filopodia mediate long-range lateral inhibition in *Drosophila*, *Letter to Nature*, de Joussineau, C, Soule, J, Martin, M, Anguille, C, Montcourrier, P, Alexandre, D, **426**, 555

Notch protein, Periodic Notch inhibition by Lunatic Fringe underlies the chick segmentation clock, *Letter to Nature*, Dale, J K, Maroto, M, Dequeant, M L, Malapert, P, McGrew, M, Pourquie, O, **421**, 275

Neurobiology: Ballads of a protein quartet, *News and views*, Mattson, M P, **422**, 385

Notch signalling, Developmental biology: Creating diversity, *News and views*, Heemels, M-T, **424**, 1011

***Notch1* gene**, A role for Wnt signalling in self-renewal of haematopoietic stem cells, *Article*, Reya, T, Duncan, A W, Ailles, L, Domen, J, Scherer, D C, Willert, K, Hintz, L, Nusse, R, Weissman, I L, **423**, 409

Novartis, Florida welcomes Scripps as critics predict big-money flop, *News*, Dalton, R, **426**, 4

Nozomi Mars probe, Fantastic journeys, *News feature*, **423**, 474

Astronomers try to save Mars probe, *News*, Cyranoski, D, **424**, 6

Japan sees red-planet mission end in failure, *News in brief*, **426**, 747

NT2 cells, Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Article*, Kawasaki, H, Taira, K, **423**, 838

Retraction: Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Letter to Nature*, Kawasaki, H, Taira, K, **426**, 100

nuclear earth penetrator, Bush seeks to beef up US nuclear-weapons arsenal, *News*, Brumfiel, G, **422**, 101

Nuclear fallout protein, Cell biology: Stretch and split, *News and views*, Pearson, H, **425**, 914

nuclear fission, Nuclear physics: Into the fission valley, *News and views*, Möller, P, Sierk, A J, **422**, 485

nuclear fuel reprocessing, Britain set to pull the plug on nuclear-fuel reprocessing, *News*, Schiermeier, Q, **425**, 7

nuclear fusion, China set to join international fusion experiment, *News in brief*, **421**, 306

Fusion project back on track as US returns to the fold, *News*, Brumfiel, G, **421**, 563

High-voltage shock sparks fusion from X-ray crush, *News*, Brumfiel, G, **422**, 549

Don't mention the war, *Opinion*, **423**, 207

US support for Spain triggers unease over fusion project, *News*, Brumfiel, G, Butler, D, **423**, 211

Fusion cash shortfall leaves JET grounded, *News*, Giles, J, **424**, 4

Europe insists fusion-project race remains wide open, *News*, Butler, D, **424**, 867

Europe's fusion-reactor plans depend on JET, *Correspondence*, Buttery, R, **424**, 995

Canada prepares to pull the plug on fusion project, *News*, Brumfiel, G, **425**, 887

France and Japan lock horns in battle to host research reactor, *News*, Butler, D, **426**, 483

nuclear magnetic resonance, Chemistry: Internal combustion, *News and views*, Reimer, J, **426**, 508

nuclear physics, Three-dimensional imaging of atomic four-body processes, *Letter to Nature*, Schulz, M, Moshammer, R, Fischer, D, Kollmus, H, Madison, D H, Jones, S, Ullrich, J, **422**, 48

Nuclear physics: Into the fission valley, *News and views*, Möller, P, Sierk, A J, **422**, 485

Pollution fears put work at neutrino laboratory on hold, *News*, Nosengo, N, **423**, 675

Nuclear physics: It's a knockout, *News and views*, Warner, D, **425**, 570

nuclear pore complexes, RanGTP mediates nuclear pore complex assembly, *Letter to Nature*, Walther, T C, Askjaer, P, Gentzel, M, Habermann, A, Griffiths, G, Wilm, M, Mattaj, I W, Hetzer, M, **424**, 689

nuclear reactors, Neutron source powers ahead with weapons-grade uranium, *News*, Schiermeier, Q, **423**, 5

India gives go-ahead for fast-breeder reactor project, *News in brief*, **425**, 114

Congress split over funding for 'safe' nuclear reactor, *News*, Brumfiel, G, **425**, 650

NASA turns sub firm in nuclear power play, *News in brief*, **425**, 892

nuclear receptors, Structure and function of Nurr1 identifies a class of ligand-independent nuclear receptors, *Letter to Nature*, Wang, Z, Benoit, G, Liu, J, Prasad S, Aarnisalo, P, Liu, X, Walker, N P C, Perlmann, T, Xu, H, **423**, 555

nuclear waste, To the heart of glass, *News feature*, Ball, P, **421**, 783

nuclear weapons, Los Alamos directors resign after row over sacked whistleblowers, *News*, Brumfiel, G, **421**, 99

Agriculture shock, *News feature*, Gewin, V, **421**, 106

Bush seeks to beef up US nuclear-weapons arsenal, *News*, Brumfiel, G, **422**, 101

Anything you can do, *Opinion*, **422**, 647

Livermore official linked with alleged spy, *News*, Brumfiel, G, **422**, 651

Lie probes to continue at US weapons labs, *News*, Brumfiel, G, **422**, 793

Hope for best, prepare for worst, *Opinion*, **423**, 101

Los Alamos contract open to bids, *News*, Brumfiel, G, **423**, 104

Asia's nuclear family, *News feature*, Cyranoski, D, Brumfiel, G, **423**, 110

Lack of trust hampers hunt for weapons, *News*, Butler, D, **423**, 371

Experts blast US decision to back nuclear bunker-busters, *News*, Brumfiel, G, **423**, 469

US to replace Russia's last plutonium plants, *News in brief*, **423**, 578

US bombshell hits revamp of Russian weapons centres, *News*, Brumfiel, G, **424**, 479

Sandia builds big lab for small-scale research, *News in brief*, **424**, 869

Facing the nuclear danger, *Opinion*, **426**, 213

Europe urged to counter nuclear proliferation threat, *News*, Brumfiel, G, **426**, 219

nucleic acids, Prion diseases: A nucleic-acid accomplice, *News and views*, Caughey, B, Kocisko, D A, **425**, 673

Structure and nucleic-acid binding of the *Drosphila* Argonaute 2 PAZ domain, *Letter to Nature*, Lingel, A, Simon, B, Izaurralde, E, attler, M, **426**, 465

Nucleic Acids Research, Open-access trial next step in biology journal's life cycle, *News in brief*, **424**, 716

nucleoporins, RanGTP mediates nuclear pore complex assembly, *Letter to Nature*, Walther, T C, Askjaer, P, Gentzel, M, Habermann, A, Griffiths, G, Wilm, M, Mattaj, I W, Hetzer, M, **424**, 689

nucleosome core particles, The structure of DNA in the nucleosome core, *Article*, Richmond, T J, Davey, C A, **423**, 145

Nurr1 protein, Structure and function of Nurr1 identifies a class of ligand-independent nuclear receptors, *Letter to Nature*, Wang, Z, Benoit, G, Liu, J, Prasad S, Aarnisalo, P, Liu, X, Walker, N P C, Perlmann, T, Xu, H, **423**, 555

Nurse, Paul, UK cell biologist takes pole position at Rockefeller, *News*, Check, E, **421**, 461

nurture, Feature: Nature, nurture and human disease, *Feature*, Chakravarti, A, Little, P, **421**, 412

nutrition, Ecology: Eaten history, *News and views*, Whitfield, J, **426**, 514
  Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Schroeter, H, Holt, R R, Orozco, T J, Schmitz, H H, Keen, C L, **426**, 787
  Reply: Nutrition: Milk and absorption of dietary flavanols, *Brief communication*, Serafini, M, Crozier, A, **426**, 788

nutrition profiling, Consumers warned that time is not yet ripe for nutrition profiling, *News*, Check, E, **426**, 107

nutritional biochemistry, Nutrional biochemistry: A new redox-cofactor vitamin for mammals, *Brief communication*, Kasahara, T, Kato, T, **422**, 832

Nymphicus hollandicus, Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363

obelix, Developmental biology: Fish in pinstripe suits, *News and views*, Heemels, M-T, **424**, 143

obesity, STAT3 signalling is required for leptin regulation of energy balance but not reproduction, *Letter to Nature*, Bates, S H, Stearns, W H, Dundon, T A, Schubert, M, Tso, A W K, Wang, Y, Banks, A S, Lavery, H J, Haq, A K, Maratos-Flier, E, Neel, B G, Schwartz, M W, Myers Jr, M G, **421**, 856
  The Hungry Gene: The Science of Fat and the Future of Thin, Shell, E R, *Book review by* Kopelman, P, **422**, 378
  Cloning of adiponectin receptors that mediate antidiabetic metabolic effects, *Letter to Nature*, Yamauchi, T, Kamon, J, Ito, Y, Tsuchida, A, Yokomizo, T, Kita, S, Sugiyama, T, Miyagishi, M, Hara, K, Tsunoda, M, Murakami, K, Ohteki, T, Uchida, S, Takekawa, S, Waki, H, Tsuno, N H, Shibata, Y, Terauchi, Y, Froguel, P, Tobe, K, Koyasu, S, Taira, K, Kitamura, T, Shimizu, T, Nagal, R, Kadowaki, T, **423**, 762
  Tribunal clears obesity researcher of fraud, *News*, Butler, D, **424**, 6

obituaries, Obituary: Arthur T. Winfree (1942–2002), *News and views*, Glass, L, **421**, 34
  Obituary: Groye Reber (1911–2002), *News and views*, Kellermann, K I, **421**, 596
  Obituary: Jean Brossel (1918–2003), *News and views*, Laloe, F, **422**, 274
  Obituary: Charles A. Janeway Jr (1943–2003), *News and views*, Paul, W E, Germain, R N, **423**, 237
  Obituary: Harmon Craig (1926–2003), *News and views*, Tlurekian, K K, **423**, 701
  Obituary: Jeff Schell (1935–2003), *News and views*, Van Montagu, M, **423**, 934
  Obituary: Ilya Prigogine (1917–2003), *News and views*, Balescu, R, **424**, 30
  Obituary: Ira Herskowitz (1946–2003), *News and views*, Johnson, A, Ptashne, M, **424**, 384
  Obituary: Thomas Risley Odhiambo (1931–2003), *News and views*, Galun, R, ole-MoiYoi, O K, **425**, 142
  Obituary: Edward Teller (1908–2003), *News and views*, Maddox, J, **425**, 362
  Obituary: Patricia S. Goldman-Rakic (1937–2003), *News and views*, Nestler, E J, **425**, 471
  Obituary: Bertram N. Brockhouse (1918–2003), *News and views*, Timusk, T, **426**, 617

observatories, Rocket-engine defect delays observatory launch, *News in brief*, **423**, 8
  Night club, *News feature*, Brumfiel, G, **426**, 116

ocean circulation, Oceanography: The brawniest retroflection, *News and views*, Gordon, A L, **421**, 904
  Islands in the pink, *News in brief*, **422**, 8
  Palaeo-oceanography: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **422**, 277
  correction: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **423**, 400
  Oceanography: Fresh input, *News and views*, Lincoln, T, **423**, 820
  Global change: South dials north, *News and views*, Stocker, T F, **424**, 496
  Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation, *Letter to Nature*, Knorr, G, Lohmann, G, **424**, 532
  Cool Indonesian throughflow as a consequence of restricted surface layer flow, *Letter to Nature*, Gordon, A L, Susanto, R D, Vranes, K, **425**, 824

ocean currents, Ocean currents mediate evolution in islands lizards, *Letter to Nature*, Calsbeek, R, Smith, T B, **426**, 552

Ocean Drilling Program, Partners dig deep for ocean-drilling project, *News*, Brumfiel, G, **422**, 651
  Ocean drilling project gets international relaunch, *News in brief*, **425**, 337

ocean ecosystems, Panel calls for sea change to fisheries policy, *News*, Gewin, V, **423**, 577

ocean floor, Earth science: Ins and outs on the ocean floor, *News and views*, Sclater, J G, **421**, 590
  Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618
  The importance of water to oceanic mantle melting regimes, *Article*, Asimow, P D, Langmuir, C H, **421**, 815

ocean mixing, Mixing with latitude, *News and views*, Garrett, C, **422**, 477
  Reduced mixing from the breaking of internal waves in equatorial waters, *Letter to Nature*, Gregg, M C, Sanford, T B, Winkel, D P, **422**, 513
  Redistribution of energy available for ocean mixing by long-range propagation of internal waves, *Letter to Nature*, Alford, M H, **423**, 159

ocean pH, Anthropogenic carbon and ocean pH, *Brief communication*, Caldeira, K, Wickett, M E, **425**, 365

ocean temperature, Temperature excludes N_2-fixing heterocystous cyanobacteria in the tropical oceans, *Letter to Nature*, Staal, M, Meysman, F I R, Stal, L J, **425**, 504

ocean-atmosphere global climate model, Severe summertime flooding Europe, *Brief communication*, Christensen, J H, Christensen, O B, **421**, 805

oceanic crust, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley, S F, Buhre, S, Jacob, D E, **421**, 249

oceanography, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley, S F, Buhre, S, Jacob, D E, **421**, 249
  Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean, *Letter to Nature*, Edmonds, H N, Michael, P J, Baker, E T, Connelly, D P, Snow, J E, Langmuir, C H, Dick, H J B, Muhe, R, German, C R, Graham, D W, **421**, 252
  Study seeks sea change in approach to oceans, *News in brief*, **421**, 306
  Oceanography: The brawniest retroflection, *News and views*, Gordon, A L, **421**, 904
  Stealth ship sets sail for a quiet life fishing for data, *News*, Moore, J, **423**, 7
  Panel calls for sea change to fisheries policy, *News*, Gewin, V, **423**, 577
  Biogeochemistry: Ancient oceans and oxygen, *News and views*, Hurtgen, M T, **423**, 592
  Evidence for low sulphate and anoxia in a mid-Proterozoic marine basin, *Letter to Nature*, Shen, Y, Knoll, A H, Walter, M R, **423**, 632
  Oceanography: Fresh input, *News and views*, Lincoln, T, **423**, 820
  Ocean experts hit wave of bad luck as sub goes under, *News in brief*, **424**, 120
  Oceanography: Stirring time in the Atlantic, *News and views*, Dickson, B, **424**, 141
  Deep convection in the Irminger Sea forced by the Greenland tip jet, *Article*, Pickart, R S, Spall, M A, Ribergaard, M H, Moore, G W K, Milliff, R F, **424**, 152
  Constrained circulation at Endeavour ridge facilitates colonization by vent larvae, *Letter to Nature*, Thomson, R E, Mihaly, S F, Rabinovich, A B, McDuff, R E, Veirs, S R, Stahr, F R, **424**, 545
  Oceanography: Bloom in cyclone, *News and views*, Lincoln, T, **424**, 630
  Lack of concern deepens the oceans' problems, *Correspondence*, Kochin, B F, Levin, P S, **424**, 723
  In a Perfect Ocean, Pauly, D, Maclean, J, *Book review by* Shepherd, J, **425**, 125
  Oceanography: No go with the floe, *News and views*, Lincoln, T, **425**, 143
  Scientists split over regulations on sonar use, *News*, Dalton, R, **425**, 549
  National Academy calls for sea change in ocean efforts, *News*, Mason, B, **426**, 6
  Global carbon cycle: Metabolic balance of the open sea, *Brief communication*, Karl, D M, Laws, E A, Morris, P, Williams, P J l, Emerson, S, **426**, 32
  Digging in, *News feature*, Cyranoski, D, **426**, 492

Oct-3/4, Cancer: Germ-cell suspect in the male, *News and views*, Pilcher, H R, **426**, 514

Odhiambo, Thomas Risley, Obituary: Thomas Risley Odhiambo (1931–2003), *News and views*, Galun, R, ole-MoiYoi, O K, **425**, 142

Oersted satellite, Intense equatorial flux spots on the surface of the Earth's core, *Letter to Nature*, Jackson, A, **424**, 760

oestrogen receptors, Cancer: Cell invasions and oestrogen receptors, *News and views*, Pilcher, H R, **422**, 829
  Oestrogen receptor hijacked, *News and views*, Brosens, J J, Parker, M G, **423**, 487
  Modulation of oestrogen receptor signalling by association with the activated dioxin receptor, *Letter to Nature*, Ohtake, F, Takeyama, K-I, Matsumoto, T, Kitagawa, H, Yamamoto, Y, Nohara, K, Tohyama, C, Krust, A, Mimura, J, Chambon, P, Yanagisawa, J, Fujii-Kuriyama, Y, Kato, S, **423**, 545
  Endocrinology: Bone adaptation requires oestrogen receptor-α, *Brief communication*, Lee, K, Jessop, H, Suswillo, R, Zaman, G, Lanyon, L, **424**, 389

OGLE-TR-56
  Astronomy: Distant planet is the hottest yet, *News and views*, Brown, T M, **421**, 488
  An extrasolar planet that transits the disk of its parent star, *Letter to Nature*, Konacki, M, Torres, G, Jha, S, Sasselov, D D, **421**, 507

oil industry, Senator rebuffs academy over Arctic oil, *News*, Reichhardt, T, **422**, 103
  US senate upholds ban on oil drilling in wildlife refuge, *News in brief*, **422**, 366
  Partners dig deep for ocean-drilling project, *News*, Brumfiel, G, **422**, 651
  Oil and war: we had the warning 30 years ago, *Correspondence*, Jennings, M D, **423**, 15
  Ocean drilling project gets international relaunch, *News in brief*, **425**, 337
  Doubts swirl around plan to use rigs as reefs, *News*, Mason, B, **425**, 891
  Integration of geoscience and engineering in the oil industry — just a dream?, *Insight commentary*, Stankiewicz, B A, **426**, 360

oil spills, How to clean a beach, *News feature*, Whitfield, J, **422**, 464
  Spanish oil company has Prestige clean-up operation in the bag, *News in brief*, **422**, 552
  Complex fluids: Spread the word about nanofluids, *News and views*, Chaudhury, M K, **423**, 131
  Spreading of nanofluids on solids, *Letter to Nature*, Wasan, D T, Nikolov, A D, **423**, 156

oilseed rape virus, Pathogen-induced systemic plant signal triggers DNA rearrangements, *Letter to Nature*, Kovalchuk, I, Kovalchuk, O, Kalck, V, Boyko, V, Filkowski, J, Heinlein, M, Hohn, B, **423**, 760

Okamoto, Takashi, Biologist gets minimum sentence in 'espionage' case, *News*, Cyranoski, D, **423**, 575

oleylethanolamide, Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR-α, *Letter to Nature*, Fu, J, Gaetani, S, Oveisi, F, Verme, J L, Serrano, A, Rodriguez de Fonseca, F, Rosengarth, A, Luecke, H, Di Giacomo, B, Tarzia, G, Piomelli, D, **425**, 91

olfactory bulb, Centre–surround inhibition among olfactory bulb glomeruli, *Article*, Aungst, J L, Heyward, P M, Puche, A C, Karnup, S V, Hayar, A, Szabo, G, Shipley, M T, **426**, 623

olfactory perception, Inhibitory feedback required for network oscillatory responses to communication but not prey stimuli, *Letter to Nature*, Doiron, B, Chacron, M J, Maler, L, Longtin, A, Bastian, J, **421**, 539

Oligocene epoch, Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia, *Letter to Nature*, Kappelman, J, Rasmussen, D T, Sanders, W J, Feseha, M, Bown, T, Copeland, P, Crabaugh, J, Fleagle, J, Glantz, M, Gordon, A, Jacobs, B, Maga, M, Muldoon, K, Pan, A, Pyne, L, Richmond, B, Ryan, T, Seiffert, E R, Sen, S, Todd, L, Wiemann, M C, Winkler, A, **426**, 549

oligomerization, Pivotal role of oligomerization in expanded polyglutamine neurodegenerative disorders, *Letter to Nature*, Sánchez, I, Mahike, C, Yuan, J, **421**, 373

olivine, Carbon solubility in olivine and the mode of carbon storage in the Earth's mantle, *Letter to Nature*, Keppler, H, Wiedenbeck, M, Shcheka, S S, **424**, 414

oncogenes, An ancient role for nuclear β-catenin in the evolution of axial polarity and germ layer segregation, *Letter to Nature*, Wikramanayake, A H, Hong, M, Lee, P N, Pang, K, Byrum, C A, Bince, J M, Xu, R, Martindale, M Q, **426**, 446

oncogenesis, Coordinated histone modifications mediated by a CtBP co-repressor complex, *Letter to Nature*, Shi, Y, Sawada, J-I, Sui, G, Affar, E B, Whetstline, J R, Lan, F, Ogawa, H, Luke, M P-S, Nakatani, Y, Shi, Y, **422**, 735

oncology *see* cancer

oncoprotein large tumour antigen, Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen, *Article*, Li, D, Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Jochimiak, A, Szakonyi, G, Chen, X S, **423**, 512
  Corrigendum: Structure of the replicative helicase of the oncoprotein SV40 large tumour antigen, *Letter to Nature*, Li, D, Zhao, R, Lilyestrom, W, Gai, D, Zhang, R, DeCaprio, J A, Fanning, E, Joachimiak, A, Szakonyi, G, Chen, X S, **425**, 102

one-atom lasers, Experimental realization of a one-atom laser in the regime of strong coupling, *Letter to Nature*, McKeever, J, Boca, A, Boozer, A D, Buck, J R, Kimble, H J, **425**, 268

ontogeny, The Development of Animal Form: Ontogeny, Morphology, and Evolution, Minelli, A, *Book review by* Meyer, A, **424**, 255
  See also **developmental biology; evolution**

oocytes, Synthetic sex cells, *News feature*, Dennis, C, **424**, 364
  Cell biology: Thanks for the memory, *News and views*, Sible, J C, **426**, 392

Ooort cloud, The evolution of comets in the Ooort cloud and Kuiper belt, *Progress article*, Stern, S A, **424**, 639

opal, Structural colour: Opal analogue discovered in a weevil, *Brief communication*, Parker, A R, Welch, V L, Driver, D, Martini, N, **426**, 786

open access, Free-access group secures deal to publish journals, *News in brief*, **421**, 6
  Sacrifice for the greater good, *Editorial*, **421**, 875
  Draft guidelines ease restrictions on use of genome sequence data, *News*, Dennis, C, **421**, 877
  Peer review and the rewards of open access, *Correspondence*, Newmark, P, **422**, 661
  Unrestricted free access works and must continue, *Correspondence*, Salzberg, S, Birney, E, Eddy, S, White, O, **422**, 801
  Clear as mud, *News feature*, Knight, J, **423**, 376
  Open-access trial next step in biology journal's life cycle, *News in brief*, **424**, 716
  Open-access row leads paper to shed authors, *News*, Butler, D, **425**, 334
  Wellcome to fund publication in open-access journals, *News*, Butler, D, **425**, 440
  Who will pay for open access?, *News feature*, Butler, D, **425**, 554
  'Open access' will not be open to everyone, *Correspondence*, Ewing, J, **425**, 559
  Open access wins German support, *News*, Schiermeier, Q, **425**, 752
  Open access: other ways, *Correspondence*, Suber, P, **426**, 15
  Open access will deter illegal file-sharing, *Correspondence*, Dufva, M, **426**, 15

  Open access: the JCI has already shown its works, *Correspondence*, Varki, A, **426**, 383
  Britain launches inquiry into the cost of science journals, *News in brief*, **426**, 747

open reading frames, Protein analysis on a proteomic scale, *Insight review article*, Phizicky, E, Bastiaens, P I H, Zhu, H, Snyder, M, Fields, S, **422**, 208
  Proteomics: Where's Waldo in yeast?, *News and views*, Wohlschlegel, J A, Yates, J R, **425**, 671
  Global analysis of protein localization in budding yeast, *Article*, Huh, W-K, Falvo, J V, Gerke, L C, Carroll, A S, Howson, R W, Weissman, J S, O'Shea, E K, **425**, 686

open-ocean deep convection, Deep convection in the Irminger Sea forced by the Greenland tip jet, *Article*, Pickart, R S, Spall, M A, Ribergaard, M H, Moore, G W K, Milliff, R F, **424**, 152

open-source software, Business backlash kills off software meeting, *News*, Butler, D, **424**, 984

opossum, Opossum hops over kangaroo to top of genome list, *News*, Dennis, C, **425**, 753

Oppenheimer, Robert, Father of atomic bomb gets night at the opera, *News in brief*, **423**, 911

optical afterglow, Astronomy: Glowing embers, *News and views*, Piran, T, **422**, 268
  Early optical emission from the γ-ray burst of 4 October 2002, *Letter to Nature*, Fox, D W, Yost, S, Kulkarni, S R, Torii, K, Kato, T, Yamaoka, H, Sako, M, Harrison, F A, Sari, R, Price, P A, Berger, E, Soderberg, A M, Djorgovski, S G, Barth, A J, Pravdo, S H, Frail, D A, Gal-Yam, A, Lipkin, Y, Mauch, T, Harrison, C, Buttery, H, **422**, 284

optical art, Optical alchemy, *Science in culture*, Martin, C, **424**, 133

optical fibres, Optics: Fibres tune in with fluid plug, *News and views*, Ball, P, **422**, 132
  Transformation and control of ultra-short pulses in dispersion-engineered photonic crystal fibres, *Article*, Reeves, W H, Skryabin, D V, Biancalana, F, Knight, J C, Russell, P St J, Omenètto, F G, Efimov, A, Taylor, A J, **424**, 511
  Photonic crystal fibres, *Insight review article*, Knight, J C, **424**, 846

optical microcavities, Optical microcavities, *Insight review article*, Vahala, K, **424**, 839

optical physics, Optical physics: Voltage manoeuvres on a microlens, *News and views*, Ball, P, **421**, 493

Optical Transient Detector, Atmospheric science: Lightning satellite survey, *News and views*, Clarke, T, **421**, 228

optical tweezers, A revolution in optical manipulation, *Insight review article*, Grier, D G, **424**, 810
  Biophysics: Cell mail delivered by light, *News and views*, Ball, P, **425**, 364

optics, Optics: Fibres tune in with fluid plug, *News and views*, Ball, P, **422**, 132
  Optics: Ado about nothing much?, *News and views*, Buttiker, M, Washburn, S, **422**, 271
  Optics: Positively negative, *News and views*, Pendry, J, **423**, 22
  Achromatic Fresnel optics for wideband extreme-ultraviolet and X-ray imaging, *Letter to Nature*, Wang, Y, Yun, W, Jacobsen, C, **424**, 50
  Optics: Laser light sees through clouds, *News and views*, Ball, P, **424**, 385
  Optics: Mechanism for 'superluminal' tunnelling, *Brief communication*, Winful, H G, **424**, 638
  Reply: Optics: Mechanism for 'superluminal' tunnelling, *Brief communication*, Buttiker, M, Washburn, S, **424**, 638
  Low-loss hollow-core silica/air photonic bandgap fibre, *Letter to Nature*, Smith, C M, Venkataraman, N, Gallagher, M T, Müller, D, West, J A, Borrelli, N F, Allan, D C, Koch, K W, **424**, 657
  Discretizing light behaviour in linear and nonlinear waveguide lattices, *Insight review article*, Christodoulides, D M, Lederer, F, Silberberg, Y, **424**, 817
  Controlling anisotropic nanoparticle growth through plasmon excitation, *Letter to Nature*, Jin, R, Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A, **425**, 487
  Astronomy: Faking it, *News and views*, Wright, A, **425**, 677
  The speed of information in a 'fast-light' optical medium, *Letter to Nature*, Stenner, M D, Gauthier, D J, Nelfeld, M A, **425**, 695
  Optics: X-ray microscopy lacks focus, *News and views*, Ball, P, **426**, 402
  Photonic crystals: Imaging by flat lens using negative refraction, *Brief communication*, Parimi, P V, Lu, W T, Vodo, P, Sridhar, S, **426**, 404
  Microfluidic sorting in an optical lattice, *Letter to Nature*, MacDonald, M P, Spalding, G C, Dholakia, K, **426**, 421
  Optics: Colourful 'black holes', *News and views*, Ball, P, **426**, 514
  Subwavelength-diameter silica wires for low-loss optical wave guiding, *Letter to Nature*, Tong, L, Gattass, R R, Ashcom, J B, He, S, Lou, J, Shen, M, Maxwell, I, Mazur, E, **426**, 816

optics, nonlinear, Ultra-high-*Q* toroid microcavity on a chip, *Letter to Nature*, Armani, D K, Kippenberg, T J, Spillane, S M, Vahala, K J, **421**, 925

optoelectronics, Nanotechnology: Dendritic lasers, *News and views*, Ball, P, **422**, 577

orangutans, A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61

Orbach, Roy, Physics poised for sizeable gains in energy department's wish-list, *News*, Brumfiel, G, **424**, 357

Orbital Space Plane, Where now for NASA?, *Editorial*, **421**, 559
  On wings and a prayer, *News feature*, Brumfiel, G, **421**, 684

orbital transport system, NASA aims high with orbital transport system, *News*, Reichhardt, T, **423**, 470

Ordovician period, Fragments of the earliest land plants, *Letter to Nature*, Wellman, C H, Osteloff, P L, Mohiuddin, U, **425**, 282

organelles, Cell biology: Moving inside membranes, *News and views*, Mihara, K, **424**, 505

organic chemistry, Organic chemistry: Aromatics do the twist, *News and views*, Lemal, D M, **426**, 776
  Synthesis of a Möbius aromatic hydrocarbon, *Letter to Nature*, Ajami, D, Oeckler, O, Simon, A, Herges, R, **426**, 819

organic crops, Diversity in food technology, *Opinion*, **424**, 473
  Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15

organic electronics, Organic electronics: Carbon makes contact, *News and views*, Ball, P, **426**, 242

organic light-emitting diodes, Electronics: Polymers light the way, *News and views*, Holmes, A, **421**, 800
  Multi-colour organic light-emitting displays by solution processing, *Letter to Nature*, Müller, D C, Falcou, A, Reckefuss, N, Rojahn, M, Wiederhirn, V, Rudati, P, Frohne, H, Nuyken, O, Becker, H, Meerholz, K, **421**, 829

organic memory, A polymer/semiconductor write-once read-many-times memory, *Letter to Nature*, Moller, S, Perlov, C, Jackson, W, Taussig, C, Forrest, S R, **426**, 166

organic synthesis, Organic Syntheses Database 2003, Wiley/Organic Syntheses Inc *Book review by* Mann, J, **426**, 122

organogenesis, *cdx4* mutants fail to specify blood progenitors and can be rescued by multiple *hox* genes, *Letter to Nature*, Davidson, A J, Ernst, P, Wang, Y, Dekens, M P S, Kingsley, P D, Palis, J, Korsmeyer, S J, Daley, G Q, Zon, L I, **425**, 300
  Eya protein phosphatase activity regulates Six1-Dach-Eya transcriptional effects in mammalian organogenesis, *Article*, Li, X, Oghi, K A, Zhang, J, Krones, A, Bush, K T, Glass, C K, Nigam, S K, Aggarwal, A K, Maas, R, Rose, D W, Rosenfeld, M G, **426**, 247

organosilicas, Photocontrolled reversible release of guest molecules from coumarin-modified mesoporous silica, *Letter to Nature*, Mal, N K, Fujiwara, M, Tanaka, Y, **421**, 350

origins of life, The Story of Life, Southwood, R, *Book review by* Zimmer, C, **422**, 815

orthodenticle, The genes *orthodenticle* and *hunchback* substitute for *bicoid* in the beetle *Tribolium*, *Letter to Nature*, Schroder, R, **422**, 621

orthopositronium, Particle physics: Brief lives, *News and views*, Wright, A, **423**, 702

Oryza sativa, An active DNA transposon family in rice, *Letter to Nature*, Jiang, N, Bao, Z, Zhang, X, Hirochika, H, Eddy, S R, McCouch, S R, Wessler, S R, **421**, 163
  Mobilization of a transposon in the rice genome, *Letter to Nature*, Nakazaki, T, Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T, **421**, 170

oscillation, All together now, *News feature*, Nadis, S, **421**, 780

oskar, Cell biology: Enlightened messages, *News and views*, Thomas, C, **426**, 27

osmotic balance, Physiology: Salty secrets of the Sumatran stingray, *News and views*, Pilcher, H R, **424**, 630

osteoblastic cells, Osteoblastic cells regulate the haematopoietic stem cell niche, *Letter to Nature*, Calvi, L M, Adams, G B, Weibrecht, K W, Weber, J M, Olson, D P, Knight, M C, Martin, R P, Schipani, E, Divieti, P, Bringhurst, F R, Milner, L A, Kronenberg, H M, Scadden, D T, **425**, 841

osteoblasts, Control of osteoblast function and regulation of bone mass, *Insight review article*, Harada, S, Rodan, G A, **423**, 349
  Bone recognition mechanism of porcine osteocalcin from crystal structure, *Letter to Nature*, Hoang, Q Q, Sicheri, F, Howard, A J, Yang, D S C, **425**, 977

osteocalcin, Bone recognition mechanism of porcine osteocalcin from crystal structure, *Letter to Nature*, Hoang, Q Q, Sicheri, F, Howard, A J, Yang, D S C, **425**, 977

osteoclastogenesis, Osteoclast differentiation and activation, *Insight review article*, Boyle, W J, Simonet, W S, Lacey, D L, **423**, 337

osteoclasts, Osteoclast differentiation and activation, *Insight review article*, Boyle, W J, Simonet, W S, Lacey, D L, **423**, 337

osteoporosis, Endocrinology: Bone adaptation requires oestrogen receptor-a, *Brief communication*, Lee, K, Jessop, H, Suswillo, R, Zaman, G, Lanyon, L, **424**, 389

Ostwald, Wilhelm, Painting by numbers, *Science in culture*, Ball, P, **425**, 904

Otto the Great, Massive cathedral testifies to ancient emperor's might, *News in brief*, **423**, 676

ovo, Regulatory evolution of *shavenbaby/ovo* underlies multiple cases of morphological parallelism, *Letter to Nature*, Sucena, E, Delon, I, Jones, I, Payre, F, Stern, D L, **424**, 935

ovules, Assessing the redundancy of MADS-box genes during carpel and ovule development, *Letter to Nature*, Pinyopich, A, Ditta, G S, Savidge, B, Liljegren, S J, Baumann, E, Wisman, E, Yanofsky, M F, **424**, 85

owl, Prediction of auditory spatial acuity from neural images on the owl's auditory space map, *Letter to Nature*, Bala, A D S, Spitzer, M W, Takahashi, T T, **424**, 771

Oxenheim, Elin, Mystery remains as journal withdraws paper, *News*, Whitfield, John, **426**, 594

oxidative demethylases, Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA, *Letter to Nature*, Aas, P A, Otterlei, M, Falnes, P O, Vågbø, C B, Skorpen, F, Akbari, M, Sundheim, O, Bjørås, M, Slupphaug, G, Seeberg, E, Krokan, H E, **421**, 859

oxidative stress, IGF-1 receptor regulates lifespan and resistance to oxidative stress in mice, *Letter to Nature*, Holzenberger, M, Dupont, J, Ducos, B, Leneuve, P, Geloen, A, Even, P C, Cervera, P, Le Bouc, Y, **421**, 182

oxygen, Corrigendum: Altered performance of forest pests under atmospheres enriched by CO_2 and O_3, *Letter to Nature*, Percy, K E, Awmack, C S, Lindroth, R L, Kubiske, M E, Kopper, B J, Isebrands, J G, Pregitzer, K S, Hendrey, G R, Dickson, R E, Zak, D R, Oksanen, E, Sober, J, Harrington, R, Karnosky, D F, **421**, 190
  Biogeochemistry: Ancient oceans and oxygen, *News and views*, Hurtgen, M T, **423**, 592
  Cancer: Out of air is not out of action, *News and views*, Bottaro, D P, Liotta, L A, **423**, 593
  Ecology: Oxygen needs in the corals, *News and views*, Whitfield, J, **425**, 364

oxygen, cryogenic, Floating gold in cryogenic oxygen, *Brief communication*, Catherall, A T, Eaves, L, King, P J, Booth, S R, **422**, 579

ozone, Reduction of soil carbon formation by tropospheric ozone under increased carbon dioxide levels, *Letter to Nature*; Loya, W M, Pregitzer, K S, Karberg, N J, King, J S, Giardina, C P, **425**, 705

ozone layer, Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
  Protecting the Ozone Layer: Science and Strategy, Parson, E A, *Book review by* Herrick, C, **422**, 664
  Protecting the Ozone Layer: The United Nations History, Anderson, S O, Sarma, K M, *Book review by* Herrick, C, **422**, 664
  Detection of bromine monoxide in a volcanic plume, *Letter to Nature*, Bobrowski, N, Honninger, G, Galle, B, Platt, U, **423**, 273
  Summer in Svalbard, *News feature*, Schiermeier, Q, **424**, 992
  Antarctic data reveal hole truth about ozone, *News in brief*, **425**, 114

P-glycoprotein, An ABC transporter with a secondary-active multidrug translocator domain, *Letter to Nature*, Venter, H, Shilling, R A, Velamakanni, S, Balakrishnan, L, van Veen, H W, **426**, 866

P-selectins, Direct observation of catch bonds involving cell-adhesion molecules, *Letter to Nature*, Marshall, B T, Long, M, Piper, J W, Yago, T, McEver, R P, Zhu, C, **423**, 190

$P2X_4$, $P2X_4$ receptors induced in spinal microglia gate tactile allodynia after nerve injury, *Letter to Nature*, Tsuda, M, Shigemoto-Mogami, Y, Koizumi, S, Mizokoshi, A, Kohsaka, S, Salter, M W, Inoue, K, **424**, 778

p53 protein, Cell biology: Double trouble with mutant p53, *News and views*, Heemels, M-T, **421**, 709
  PAC1 phosphatase is a transcription target of p53 in signalling apoptosis and growth suppression, *Letter to Nature*, Yin, Y, Liu, Y-X, Jin, Y J, Hall, E J, Barrett, J C, **422**, 527
  Integration of interferon-α/β signalling to p53 responses in tumour suppression and antiviral defence, *Article*, Takaoka, A, Hayakawa, S, Yanai, H, Stoiber, D, Negishi, H, Kikuchi, H, Sasaki, S, Imai, K, Shibue, T, Honda, K, Taniguchi, T, **424**, 516

PAC1 phosphatase, PAC1 phosphatase is a transcription target of p53 in signalling apoptosis and growth suppression, *Letter to Nature*, Yin, Y, Liu, Y-X, Jin, Y J, Hall, E J, Barrett, J C, **422**, 527

pacemaker channels, Structural basis for modulation and agonist specificity of HCN pacemaker channels, *Letter to Nature*, Zagotta, W N, Olivier, N B, Black, K D, Young, E C, Olson, R, Gouaux, E, **425**, 200

Pacific Ocean, Climate-driven changes to the atmosphere CO_2 sink in the subtropical North Pacific Ocean, *Letter to Nature*, Dore, J E, Lukas, R, Sadler, D W, Karl, D M, **424**, 754
  Cool Indonesian throughflow as a consequence of restricted surface layer flow, *Letter to Nature*, Gordon, A L, Susanto, R D, Vranes, K, **425**, 824

Padian, Kevin, Making connections– Kevin Padian, *Lifelines*, **426**, 233

paediatrics, British panel bans use of antidepressant to treat children, *News*, Abbott, A, **423**, 792

pain, New player in pain, *News and views*, McCleskey, E W, **424**, 729
  $P2X_4$ receptors induced in spinal microglia gate tactile allodynia after nerve injury, *Letter to Nature*, Tsuda, M, Shigemoto-Mogami, Y, Koizumi, S, Mizokoshi, A, Kohsaka, S, Salter, M W, Inoue, K, **424**, 778
  Trans-synaptic shift in anion gradient in spinal lamina I neurons as a mechanism of neuropathic pain, *Letter to Nature*, Coull, J A M, Boudreau, D, Bachand, K, Prescott, S A, Nault, F, Sik, A, De Koninck, P, De Koninck, Y, **424**, 938

pain perception, Anglers face the painful truth, *News in brief*, **423**, 8
  Analgesia and hyperalgesia from GABA-mediated modulation of the cerebral cortex, *Letter to Nature*, Jasmin, L, Rabkin, S D, Granato, A, Boudah, A, Ohara, P T, **424**, 316

pain relief, Court ruling sees ban on medical marijuana go up in smoke, *News in brief*, **425**, 756

palaeo-oceanography, Palaeo-oceanography: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **422**, 277
  correction: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **423**, 400

Palaeoamericans, Tracking the first Americans, *News and views*, Dillehay, T D, **425**, 23
  Craniometric evidence for Palaeoamerican survival in Baja California, *Letter to Nature*, González-José, R, González-Martin, A, Hernández, M, Pucciarelli, H M, Sardi, M, Rosales, A, Van der Molen, S, **425**, 62

palaeoanthropology, Tracking the first Americans, *News and views*, Dillehay, T D, **425**, 23
  Craniometric evidence for Palaeoamerican survival in Baja California, *Letter to Nature*, González-José, R, González-Martin, A, Hernández, M, Pucciarelli, H M, Sardi, M, Rosales, A, Van der Molen, S, **425**, 62

palaeobiogeography, An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807

palaeobiology, An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807
  Life on a Young Planet: The First Three Billion Years of Evolution on Earth, Knoll, A H, *Book review by* Bengtson, S, **423**, 481
palaeobotany, An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807
  Palaeobotany: Fishing for the first plants, *News and views*, Kenrick, P, **425**, 248
palaeoceanography, Palaeoceanographic implications of genetic variation in living North Atlantic *Neogloboquadrina pachyderma*, *Letter to Nature*, Bauch, D, Darling, K, Simstich, J, Bauch, H A, Erienkeuser, H, Kroon, D, **424**, 299
Palaeocene/Eocene Thermal Maximum, Gas leak!, *News feature*, Schiermeier, Q, **423**, 681
  Tropical climate study gives view of global heatwave, *News in brief*, **425**, 892
palaeoclimatology, Palaeoclimatology: Cooling a continent, *News and views*, Barrett, P, **421**, 221
palaeodata, Stability of forest biodiversity, *Letter to Nature*, Clark, J S, McLachlan, J S, **423**, 635
palaeoenvironment, Inferring the palaeoenvironment of ancient bacteria on the basis of resurrected proteins, *Letter to Nature*, Gaucher, E A, Thomson, J M, Burgan, M F, Benner, S A, **425**, 285
Palaeolithic period, Palaeolithic ivory sculptures from southwestern Germany and the origins of figurative art, *Letter to Nature*, Conard, N J, **426**, 830
palaeontology, Palaeontology: Going to work on an egg, *News and views*, Lincoln, T, **421**, 597
  Palaeontology: Combing the primate record, *News and views*, Martin, R D, **422**, 388
  Palaeontology: Swimming sperm in an extinct Gondwanan plant, *Brief communication*, Nishida, H, Pigg, K B, Rigby, J F, **422**, 396
  Fossil evidence for an ancient divergence of lorises and galagos, *Letter to Nature*, Seiffert, E R, Simons, E L, Attia, Y, **422**, 421
  The Scientific Study of Mummies, Aufderheide, A C, *Book review by* Wisseman, S U, **423**, 18
  Museum trustees quit after row over sale of artefacts, *News*, Dalton, R, **424**, 360
  Setting the record straight, *News feature*, Schiermeier, Q, **424**, 482
  Palaeontology: Spider-web silk from Early Cretaceous, *Brief communication*, Zschokke, S, **424**, 636
  After the Ice: A Global Human History 20,000–5000 BC, Mithen, S, *Book review by* Bettinger, R, **425**, 453
  Palaeontology: Smart-winged pterosaurs, *News and views*, Unwin, D M, **425**, 910
  Palaeontology: Preserved organs of Devonian harvestmen, *Brief communication*, Dunlop, J A, Anderson, L I, Kerp, H, Hass, H, **425**, 916
  Neuroanatomy of flying reptiles and implications for flight, posture and behaviour, *Letter to Nature*, Witmer, L M, Chatterjee, S, Franzosa, J, Rowe, T, **425**, 950
  Palaeontology: A polydactylous amniote from the Triassic period, *Brief communication*, Wu, X-C, Li, Z, Zhou, B-C, Dong, Z-M, **426**, 516
palaeopathology, The Scientific Study of Mummies, Aufderheide, A C, *Book review by* Wisseman, S U, **423**, 18
Palaeospondylus gunni, A larval Devonian lungfish, *Letter to Nature*, Thomson, K S, Sutton, M, Thomas, B, **426**, 833
Palau, Pacific island tips balance in favour of biosafety protocol, *News in brief*, **423**, 794
Paleobiology Database, Setting the record straight, *News feature*, Schiermeier, Q, **424**, 482
Palestinian issues, Windfall spurs rare Israeli-Palestinian research effort, *News*, Adam, D, **421**, 7, **421**, 777
  Across the great divide, *News feature*, Giles, J, **425**, 444
  Middle East: a picture is worth a thousand words, *Correspondence*, Bigman, J, **425**, 899
  Middle East: trying to break down the barriers, *Correspondence*, Ali, B R, **425**, 899
  Middle East: nothing to fear except terrorism, *Correspondence*, Cohen, J S, **426**, 227
  Middle East: university funding for Palestinians, *Correspondence*, Agmon, N, **426**, 227
palindromes, Abundant gene conversion between arms of palindromes in human and ape Y chromosomes, *Letter to Nature*, Rozen, S, Skaletsky, H, Marszalek, J D, Minx, P J, Cordum, H S, Waterston, R H, Wilson, R K, Page, D C, **423**, 873
palladium, Dissociative hydrogen adsorption on palladium requires aggregates of three or more vacancies, *Letter to Nature*, Mitsul, T, Rose, M K, Fomin, E, Ogletree, D F, Salmeron, M, **422**, 705
palms, Ecology: Palms in motion, *News and views*, Moore, P D, **426**, 26
pancreas, Free fatty acids regulate insulin secretion from pancreatic β cells through GRP40, *Letter to Nature*, Itoh, Y, Kawamata, Y, Harada, M, Kobayashi, M, Fujii, R, Fukusumi, S, Ogi, K, Hosoya, M, Tanaka, Y, Uejima, H, Tanaka, H, Maruyama, M, Satoh, R, Okubo, S, Kizawa, H, Komatsu, H, Matsumura, F, Noguchi, Y, Shinohara, T, Hinuma, S, Fujisawa, Y, Fujino, M, **422**, 173
  Diabetes: Molecular suspect fingered, *News and views*, Thomas, C, **424**, 265
  Hedgehog is an early and late mediator of pancreatic cancer tumorigenesis, *Letter to Nature*, Thayer, S P, Pasca di Magliano, M, Heiser, P W, Nielsen, C M, Roberts, D J, Lauwers, G Y, Qi, Y P, Gysin, S, Fernandez-del Castillo, C, Yajnik, V, Antoniu, B, McMahon, M, Warshaw, A L, Hebrok, M, **425**, 851
pandemics, Ecological and immunological determinants of influenza evolution, *Letter to Nature*, Ferguson, N M, Galvani, A P, Bush, R M, **422**, 428
  Apartment complex holds clues to pandemic potential of SARS, *News*, Cyranoski, D, Abbott, A, **423**, 3
  See also **epidemics**
Pandora (moon of Saturn), Planetary science: Moons on the wander, *News and views*, Clarke, T, **421**, 907
PAR kinases, A role for *Drosophila* LKB1 in anterior-posterior axis formation and epithelial polarity, *Letter to Nature*, Martin, S G, St Johnston, D, **421**, 379
Par proteins, Cell polarity: From embryo to axon, *News and views*, Rolls, M M, Doe, C Q, **421**, 905
  The Par complex directs asymmetric cell division by phosphorylating the cytoskeletal protein Lgl, *Letter to Nature*, Betschinger, J, Mechtler, K, Knoblich, J A, **422**, 326
parallelism, Regulatory evolution of *shavenbaby/ovo* underlies multiple cases of morphological parallelism, *Letter to Nature*, Sucena, E, Delon, I, Jones, I, Payre, F, Stern, D L, **424**, 935
paralysis, In search of a miracle, *News feature*, Pearson, H, **423**, 112
Paranthropus boisei, Television review: Walking with Cavemen, Dale, R, *Book review by* Gamble, C, **422**, 473
parapsychology, Parapsychology post set up for long-dead benefactor, *News in brief*, **423**, 214
parasites, Erratum: The role of parasites in sympatric and allopatric host diversification, *Letter to Nature*, Buckling, A, Rainey, P B, **421**, 294
  Parasites lost, *News and views*, Clay, K, **421**, 585
  Release of invasive plants from fungal and viral pathogens, *Letter to Nature*, Mitchell, C E, Power, A G, **421**, 625
  Introduced species and their missing parasites, *Letter to Nature*, Torchin, M E, Lafferty, K D, Dobson, A P, McKenzie, V J, Kuris, A M, **421**, 628
  Sweet revenge, *News feature*, Dennis, C, **423**, 580
  Evolution of complex life cycles in helminth parasites, *Article*, Parker, G A, Chubb, J C, Ball, M A, Roberts, G N, **425**, 480
parasitism, Behavioural ecology: Coots count, *News and views*, Andersson, M, **422**, 483
  Egg recognition and counting reduce costs of avian conspecific brood parasitism, *Article*, Lyon, B E, **422**, 495
  Ecology: A liverwort cheat, *News and views*, Lincoln, T, **422**, 826
  Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Griffith, S C, Montgomerie, R, **422**, 833
  Reply: Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Blomqvist, D, Andersson, M, Kïpper, C, Cuthill, I C, Kis, J, Lanctot, R B, Sandercock, B K, Székely, T, Wallander, J, Kempenaers, B, **422**, 833
  Malaria: Pump hijacker, *News and views*, Pearson, H, **423**, 30
  Corrigendum: Fungus-growing ants use antibiotic-producing bacteria to control garden parasites, *Letter to Nature*, Currie, C R, Scott, J A, Summerbell, R C, Malloch, D, **423**, 461
parasitology, Parasitology: In the bag, *News and views*, Whitfield, J, **423**, 702
parasitophorous vacuole, Malaria: Pump hijacker, *News and views*, Pearson, H, **423**, 30
parchment, Philology: The pages of history, *Book review*, Abbott, A, **423**, 588
parenting, Decisions about parental care in response to perceived paternity, *Letter to Nature*, Neff, B D, **422**, 716
  Evolutionary biology: Polygamy and parenting, *News and views*, Pagel, M, **424**, 23
  Behavioural ecology: Father knows best, *News and views*, Sherman, P W, Neff, B D, **425**, 136
  True paternal care in a multi-male primate society, *Letter to Nature*, Buchan, J C, Alberts, S C, Silk, J B, Altmann, J, **425**, 179
parity violation, Inorganic chemistry: Molecules lend a hand, *News and views*, Ball, P, **422**, 487
Parkinson's disease, Rationalization of the effects of mutations on peptide and protein aggregation rates, *Letter to Nature*, Chiti, F, Stefani, M, Taddei, N, Ramponi, G, Dobson, C M, **424**, 805
  Fetal trials need public funds, *Opinion*, **424**, 981
  Parkinson's transplant therapy faces setback, *News*, Check, E, **424**, 987
  Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905
paroxetine, British panel bans use of antidepressant to treat children, *News*, Abbott, A, **423**, 792
parthenogenesis, Ecology: Parthenogenesis in an outsider crayfish, *Brief communication*, Scholtz, G, Braband, A, Tolley, L, Reimann, A, Mittmann, B, Lukhaup, C, Steuerwald, F, Vogt, G, **421**, 806
particle accelerators, Researchers feel the power as electron laser lights up, *News in brief*, **423**, 911
  Below-par performance hampers Fermibal quest for Higgs boson, *News*, Brumfiel, G, **424**, 3
  Accelerator physics: In the wake of success, *News and views*, Bingham, R, **424**, 258
particle behaviour, Capillary attraction: Like-charged particles at liquid interfaces, *Brief communication*, Megens, M, Aizenberg, J, **424**, 1014
  Reply: Capillary attraction: Like-charged particles at liquid interfaces, *Brief communication*, Nikolaides, M G, Bausch, A R, Hsu, M F, Dinsmore, A D, Brenner, M P, Gay, C, Weitz, D A, **424**, 1014
  Water-driven structure transformation in nanoparticles at room temperature, *Letter to Nature*, Zhang, H, Gilbert, B, Huang, F, Banfield, J F, **424**, 1025
particle physics, Now you see them, now you don't, *News and views*, Wark, D, **421**, 485
  Particle physics: Photon charge reaches new limits, *News and views*, Ball, P, **421**, 709
  Revamped accelerator seeks quark's secrets, *News*, Brumfiel, G, **422**, 248
  Tomorrow's computing today, *News feature*, Butler, D, **422**, 799
  Quantum electronics: The electron is cool, *News and views*, Toschek, P E, **422**, 822
  Bose–Einstein condensation of the triplet states in the magnetic insulator TlCuCl$_3$, *Letter to Nature*, Rüegg, Ch, Cavadini, N, Furrer, A, Güdel, H-U, Krämer, K, Mutka, H, Wildes, A, Habicht, K, Vorderwisch, P, **423**, 62
  Quark 'compound' has them all guessing, *News in brief*, **423**, 108
  High-energy physics: Into the fifth dimension, *News and views*, Maldacena, J, **423**, 695
  Particle physics: Brief lives, *News and views*, Wright, A, **423**, 702
  India plans to bring neutrino science home, *News*, Jayaraman, K S, **423**, 909
  Neutrino lab back on track after toxic leak, *News in brief*, **423**, 910
  Collision debris yields five-quark particle, *News*, Cyranoski, D, **424**, 7
  Accelerator physics: In the wake of success, *News and views*, Bingham, R, **424**, 258
  Particle physics: Strange days, *News and views*, Close, F, **424**, 376
  Gold-mine conversion eases closer, *News*, Brumfiel, G, **424**, 713
  Towards a clean collider, *Opinion*, **426**, 105
  Particle-physics funder backs linear collider, *News in brief*, **426**, 376
  A magnificent seven, *News and views*, Lincoln, T, **426**, 773
particulates, Atmospheric chemistry: Burning domestic issues, *News and views*, Levine, J S, **423**, 28
parvoviruses, SARS virus infection of cats and ferrets, *Brief communication*, Martina, B E E, Haagmans, B L, Kuiken, T, Fouchier, R A M, Rimmelzwaan, G F, van Amerongen, G, Peiris, J S M, Lim, W, Osterhaus, A D M E, **425**, 915
Pascal, Blaise, 1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761
pastes, Soft matter: Paste inside, *News and views*, Ball, P, **421**, 907
Patagonian toothfish, Patagonian toothfish found off Greenland, *Brief communication*, Møller, P R, Nielsen, J G, Fossen, I, **421**, 599
Patched protein, Cancer: A twist in a hedgehog's tale, *News and views*, Scott, M P, **425**, 780
patents, Biotech joint venture flounders in wake of Syngenta's silence, *News in brief*, **421**, 6
  Europe uproots patent for DuPont's oil-rich maize, *News in brief*, **421**, 778
  Geneticists question fees for use of patented 'junk' DNA, *News*, Dennis, C, **423**, 105
  Gene patents and the public good, *Opinion*, **423**, 207
  US acts to keep SARS sequence public, *News in brief*, **423**, 214
  US army attacked over published patent for 'bioweapons grenade', *News*, Check, E, **423**, 789
  Remote control, *News feature*, Hoag, H, **423**, 796
  Drive for patent-free innovation gathers pace, *News*, Butler, D, **424**, 118
  Japanese push for patents 'sidelines basic research', *News in brief*, **424**, 244
  Row over junk DNA patents comes home to Australia, *News in brief*, **424**, 480
  Need for a court to rule on patents and misconduct, *Correspondence*, Bihain, B E, **424**, 875
  This protein belongs to, *News feature*, Cyranoski, D, **426**, 10
  Promega changes tack in battle over patent, *News*, Knight, J, **426**, 373
paternity, Wise fathers, *News and views*, Reynolds, J D, Sheldon, B C, **422**, 669
  Decisions about parental care in response to perceived paternity, *Letter to Nature*, Neff, B D, **422**, 716
  Behavioural ecology: Father knows best, *News and views*, Sherman, P W, Neff, B D, **425**, 136
  True paternal care in a multi-male primate society, *Letter to Nature*, Buchan, J C, Alberts, S C, Silk, J B, Altmann, J, **425**, 179
pathogens, Law sends laboratories into pathogen panic, *News*, Check, E, **421**, 4
  Genomics: Relative pathogenic values, *News and views*, Parkhill, J, Berry, C, **423**, 23
  Handle with care, *Opinion*, **426**, 1
pattern recognition, Cognitive neuroscience: Practice doesn't make perfect, *News and views*, Geisler, W, Murray, R, **423**, 696
  The remarkable inefficiency of word recognition, *Letter to Nature*, Pelli, D G, Farell, B, Moore, D C, **423**, 752
Pauly, Daniel, Daniel Pauly, *Lifelines*, **421**, 23
paxillin, JNK phosphorylates paxillin and regulates cell migration, *Letter to Nature*, Huang, C, Rajfur, Z, Borchers, C, Schaller, M D, Jacobson, K, **424**, 219
PAZ domain, Structure and conserved RNA binding of the PAZ domain, *Letter to Nature*, Yan, K S, Yan, S, Farooq, A, Han, A, Zeng, L, Zhou, M-M, **426**, 469
***Pde1c* gene**, A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917
PDMS, Materials science: Molecules squeezed and stroked, *News and views*, Granick, S, Lin, Z, Bae, S C, **425**, 467
peat, A pre-industrial source of dioxins and furans, *Brief communication*, Meharg, A A, Killham, K, **421**, 909
PEBBLEs, The tiny toolkit, *News feature*, Zandonella, C, **423**, 10
PECAM protein, Targeted recycling of PECAM from endothelial surface-connected compartments during diapedesis, *Letter to Nature*, Mamdouh, Z, Chen, X, Pierini, L M, Maxfield, F R, Muller, W A, **421**, 748

peer review, Academics are teachers and colleagues too, *Correspondence*, Greif, K F, **421**, 13
  Scientific research and the human condition, *Correspondence*, Velazquez, J L P, **421**, 13
  Funding should recognize the value of peer review, *Correspondence*, Dominiczak, M H, **421**, 111
  Journals: how to decide what's worth publishing, *Correspondence*, Jefferson, T, Shashok, K, **421**, 209
  Journals: redundant publications are bad news, *Correspondence*, Mojon-Azzi, S M, Jiang, X, Wagner, U, Mojon, D S, **421**, 209
  Reviewing should be shown in publication list, *Correspondence*, Clausen, T, Nielsen, O B, **421**, 689
  The politics of publication, *Commentary*, Lawrence, P A, **422**, 259
  Swift publication would reward good reviewers, *Correspondence*, Koonin, E V, **422**, 374
  Peer review and the rewards of open access, *Correspondence*, Newmark, P, **422**, 661
  Improving science through online commentary, *Correspondence*, Eagleman, D M, Holcombe, A O, **423**, 15
  Peer review: recognition via year-end statements, *Correspondence*, van Loon, A J T, **423**, 116
  Editors are meant to be judges, not postmen, *Correspondence*, Michell, B, **423**, 479
  Disruption to science in developing countries, *Correspondence*, Barcinski, M A, **423**, 480
  The system rewards a dishonest approach, *Correspondence*, Brookfield, J, **423**, 480
  Online comment could promote unfair criticism, *Correspondence*, Lumsden, A, Raff, M, Sanes, J R, **423**, 918
  Does the proof stack up?, *News feature*, Szpiro, G, **424**, 12
  Journal editor quits hot seat over global-warming study, *News in brief*, **424**, 606
  Computer's ability to verify proof is an illusion, *Correspondence*, Partridge, D, **425**, 121
  Coping with peer rejection, *Opinion*, **425**, 645
  Don't create a climate of fear, *Opinion*, **425**, 885
  How genius can smooth the road to publication, *Correspondence*, Brummer, J, **426**, 119
  Reply: How genius can smooth the road to publication, *Correspondence*, Maddox, J, **426**, 119
  Task force set up to combat threat of political interference, *News*, Check, E, **426**, 218
Peierls potential, Subatomic movements of a domain wall in the Peierls potential, *Letter to Nature*, Novoselov, K S, Geim, A K, Dubonos, S V, Hill, E W, Grigorieva, I V, **426**, 812
Peltier effect, Spin entropy as the likely source of enhanced thermopower in $Na_xCo_2O_4$, *Letter to Nature*, Wang, Y, Rogado, N S, Cava, R J, Ong, N P, **423**, 425
penguins, The Adelie Penguin: Bellwether of Climate Change, Ainley, D G, *Book review by* Le Maho, Y, Gremillet, D, **422**, 264
pentacene, Retraction: Efficient organic photovoltaic diodes based on doped pentacene, *Letter to Nature*, Schön, J H, Kloc, Ch, Bucher, E, Batlogg, B, **422**, 93
pentosan, Rapid drug trial offers hope to CJD patients, *News*, Giles, J, **426**, 487
peptides, aggregation, Rationalization of the effects of mutations on peptide and protein aggregation rates, *Letter to Nature*, Chiti, F, Stefani, M, Taddei, N, Ramponi, G, Dobson, C M, **424**, 805
perception, Environmentally mediated synergy between perception and behaviour in mobile robots, *Letter to Nature*, Verschure, P F M J, Voegtlin, T, Douglas, R J, **425**, 620
perceptual judgement, Visual control of action but not perception requires analytical processing of object shape, *Letter to Nature*, Ganel, T, Goodale, M A, **426**, 664
peridotites, Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoul, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618
periodic lattices, Observation of two-dimensional discrete solitons in optically induced nonlinear photonic lattices, *Letter to Nature*, Fleischer, J W, Segev, M, Efremidis, N K, Christodoulides, D N, **422**, 147
  Experimental observation of symmetry-breaking nonlinear modes in an active ring, *Letter to Nature*, Demokritov, S O, Serga, A A, Demidov, V E, Hillebrands, B, Kostylev, M P, Kalinikos, B A, **426**, 159
Periodic Table, Ion charges to heart of Earth's periodic table, *News in brief*, **425**, 115
periplasmic binding proteins, Computational biology: Biosensor design, *News and views*, DeGrado, W F, **423**, 132
permafrost, Alpine thaw breaks ice over permafrost's role, *News*, Schiermeier, Q, **424**, 712
Permian period, Palaeontology: Swimming sperm in an extinct Gondwanan plant, *Brief communication*, Nishida, H, Pigg, K B, Rigby, J F, **422**, 396
  When Life Nearly Died: The Greatest Mass Extinction of All Time, Benton, M, *Book review by* Bowler, P J, **423**, 384
perovskite, Critical thickness for ferroelectricity in perovskite ultrathin films, *Letter to Nature*, Junquera, J, Ghosez, P, **422**, 506
  Magnetic control of ferroelectric polarization, *Letter to Nature*, Kimura, T, Goto, T, Shintani, H, Ishizaka, K, Arima, T, Tokura, Y, **426**, 55
peroxiredoxins, Essential role for the peroxiredoxin Prdx1 in erythrocyte antioxidant defence and tumour suppression, *Letter to Nature*, Neumann, C A, Krause, D S, Carman, C V, Das, S, Dubey, D P, Abraham, J L, Bronson, R T, Fujiwara, Y, Orkin, S H, Van Etten, R A, **424**, 561
  ATP-dependent reduction of cysteine-sulphinic acid by *S. cerevisiae* sulphiredoxin, *Letter to Nature*, Biteau, B, Labarre, J, Toledano, M B, **425**, 980
Peru, NASA feels the heat as glacier pictures cause unrest in Peru, *News in brief*, **422**, 794
  Statistical model leaves Peru counting the cost of civil war, *News*, Knight, J, **425**, 6
Perutz, Max, History and science united to vindicate Perutz, *Correspondence*, Paterlini, M, **424**, 127
pest control, Corrigendum: Fungus-growing ants use antibiotic-producing bacteria to control garden parasites, *Letter to Nature*, Currie, C R, Scott, J A, Summerbell, R C, Malloch, D, **423**, 461
pesticides, Pesticide firms ask to use human data to assess safety, *News*, Reichhardt, T, **421**, 200
  Scientists attack industrial influence, *News*, Knight, J, **426**, 741
pesticides, resistance, Pest resistance feared as farmers flout rules, *News*, Clarke, T, **424**, 116
pests, Corrigendum: Altered performance of forest pests under atmospheres enriched by CO_2 and O_3, *Letter to Nature*, Percy, K E, Awmack, C S, Lindroth, R L, Kubiske, M E, Kopper, B J, Isebrands, J G, Pregitzer, K S, Hendrey, G R, Dickson, R E, Zak, D R, Oksanen, E, Sober, J, Harrington, R, Karnosky, D F, **421**, 190
  Parasites lost, *News and views*, Clay, K, **421**, 585
  Release of invasive plants from fungal and viral pathogens, *Letter to Nature*, Mitchell, C E, Power, A G, **421**, 625
  Introduced species and their missing parasites, *Letter to Nature*, Torchin, M E, Lafferty, K D, Dobson, A P, McKenzie, V J, Kuris, A M, **421**, 628
  Agency 'ignoring its advisors' over Bt maize, *News*, Knight, J, **422**, 5
Petri dish, Goodbye, flat biology?, *Opinion*, **424**, 861
  Biology's new dimension, *News feature*, Abbott, A, **424**, 870
petroleum, Hydrocarbons and the evolution of human culture, *Insight commentary*, Hall, C, Tharakan, P, Hallock, J, Cleveland, C, Jefferson, M, **426**, 318
  Organic-inorganic interactions in petroleum-producing sedimentary basins, *Insight review article*, Seewald, J S, **426**, 327
  Biological activity in the deep subsurface and the origin of heavy oil, *Insight review article*, Head, I M, Jones, D M, Larter, S R, **426**, 344
pets, Poorly pets to provide early warning in war on bioterror, *News in brief*, **421**, 882
  GloFish casts light on murky policing of transgenic animals, *News*, Knight, J, **426**, 372
Peutz–Jeghers syndrome, A role for *Drosophila* LKB1 in anterior-posterior axis formation and epithelial polarity, *Letter to Nature*, Martin, S G, St Johnston, D, **421**, 379
Pew Oceans Commission, Panel calls for sea change to fisheries policy, *News*, Gewin, V, **423**, 577
Peyer's patches, Selective imprinting of gut-homing T cells by Peyer's patch dendritic cells, *Letter to Nature*, Mora, J R, Bono, M R, Manjunath, N, Weninger, W, Cavanagh, L L, Rosemblatt, M, von Andrian, U H, **424**, 88
PGC-1α protein, Insulin-regulated hepatic gluconeogenesis through FOXO1-PGC-1α interaction, *Letter to Nature*, Puigserver, P, Rhee, J, Donovan, J, Walkey, C J, Yoon, J C, Oriente, F, Kitamura, Y, Altomonte, J, Dong, H, Accili, D, Spiegelman, B M, **423**, 550
  Diabetes: Molecular suspect fingered, *News and views*, Thomas, C, **424**, 265
pH homeostasis, Proton-sensing G-protein-coupled receptors, *Letter to Nature*, Ludwig, M-G, Vanek, M, Guerini, D, Gasser, J A, Jones, C E, Junker, U, Hofstetter, H, Wolf, R M, Seuwen, K, **425**, 93
phagocytosis, Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37
  The voltage dependence of NADPH oxidase reveals why phagocytes need proton channels, *Letter to Nature*, DeCoursey, T E, Morgan, D, Cherny, V V, **422**, 531
  Microbial pathogenesis and cytoskeletal function, *Insight review article*, Gruenheid, S, Finlay, B B, **422**, 775
  ER-phagosome fusion defines an MHC class I cross-presentation compartment in dendritic cells, *Letter to Nature*, Guermonprez, P, Saveanu, L, Kleijmeer, M, Davoust, J, van Endert, P, Amigorena, S, **425**, 397
  Phagosomes are competent organelles for antigen cross-presentation, *Letter to Nature*, Houde, M, Bertholet, S, Gagnon, E, Brunet, S, Goyette, G, Laplante, A, Princiotta, M F, Thibault, P, Sacks, D, Desjardins, M, **425**, 402
phagosomes, Phagosomes are competent organelles for antigen cross-presentation, *Letter to Nature*, Houde, M, Bertholet, S, Gagnon, E, Brunet, S, Goyette, G, Laplante, A, Princiotta, M F, Thibault, P, Sacks, D, Desjardins, M, **425**, 402
Phanerozoic eon, The long-term carbon cycle, fossil fuels and atmospheric composition, *Insight overview*, Berner, R A, **426**, 323
PHANTASTICA, The expression domain of *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **424**, 438
  Erratum: The expression domain *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **425**, 102
pharma crops, Tougher rules aim to prevent gene flow into crops, *News*, Hoag, H, **422**, 103
pharmaceutical industry, In the eye of the beholder, *News feature*, Pearson, H, **424**, 990
  Drug companies snub antibiotics as pipeline threatens to run dry, *News*, Clarke, T, **425**, 225
pharmaceuticals, Studies assess risks of drugs in water cycle, *News*, Schiermeier, Q, **424**, 5
  Raiding the medicine cabinet, *News feature*, Butler, D, **424**, 10
pharmacogenetics, Pharmacogenetics to come, *Opinion*, **425**, 749
  With your genes? Take one of these, three times a day, *News feature*, Abbott, A, **425**, 760
phase equilibrium, Temperature-induced valence transition and associated lattice collapse in samarium fulleride, *Letter to Nature*, Arvanitidis, J, Papagelis, K, Margadonna, S, Prassides, K, Fitch, A N, **425**, 599
phase gates, Experimental demonstration of a robust, high-fidelity geometric two ion-qubit phase gate, *Letter to Nature*, Leibfried, D, DeMarco, B, Meyer, V, Lucas, D, Barrett, M, Britton, J, Itano, W M, Jelenkovic, B, Langer, C, Rosenband, T, Wineland, D J, **422**, 412
phase transitions, Observation of surface and bulk phase transitions in nematic liquid crystals, *Letter to Nature*, Boamfa, M I, Kim, M W, Mann, J C, Rasing, Th, **421**, 149
  Femtosecond X-ray measurement of coherent lattice vibrations near the Lindemann stability limit, *Letter to Nature*, Sokolowski-Tinten, K, Blome, C, Blums, J, Cavalleri, A, Dietrich, C, Tarasevitch, A, Uschmann, I, Forster, E, Kammier, M, Horn-von-Hoegen, M, von der Linde, D, **422**, 287
phasons, Direct observation of a local thermal vibration anomaly in a quasicrystal, *Letter to Nature*, Abe, E, Pennycook, S J, Tsai, A P, **421**, 347
Pheidole, *Pheidole* in the New World: A Dominant, Hyperdiverse Ant Genus, Wilson, E O, *Book review by* Agosti, D, **424**, 727
phenotypic variation, Evolutionary capacitance as a general feature of complex gene networks, *Letter to Nature*, Bergman, A, Siegal, M L, **424**, 549
  Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers, *Letter to Nature*, Bradshaw, H D, Schemske, D, **426**, 176
pheromones, Behavioural ecology: Fresh on the tang of citrus, *News and views*, Whitfield, J, **423**, 395
  Reproductive biology: Mammary messages, *News and views*, Blass, E M, **424**, 25
  Chemical and behavioural characterization of the rabbit mammary pheromone, *Letter to Nature*, Schaal, B, Coureaud, G, Langlois, D, Ginies, C, Semon, E, Perrier, G, **424**, 68
  Insect signalling: Components of giant hornet alarm pheromone, *Brief communication*, Ono, M, Terabe, H, Hori, H, Sasaki, M, **424**, 637
philology, Philology: The pages of history, *Book review*, Abbott, A, **423**, 588
  Trees of life and language, *News and views*, Searls, D B, **426**, 391
philosophy, Looking for Spinoza: Joy, Sorrow and the Feeling Brain, Damasio, A, *Book review by* Dolan, R, **421**, 893
  In retrospect: An Investigation of the Principles of Knowledge and of the Progress of Reason, from Sense to Science and Philosophy, Hutton, J, *Book review by* Pearson, P, **425**, 665
  Flesh in the Age of Reason, Porter, R, *Book review by* Fara, P, **426**, 497
phloem, APL regulates vascular tissue identity in *Arabidopsis*, *Letter to Nature*, Bonke, M, Thitamadee, S, Mahonen, A P, Hauser, M-T, Helariutta, Y, **426**, 181
phonons, Direct observation of a local thermal vibration anomaly in a quasicrystal, *Letter to Nature*, Abe, E, Pennycook, S J, Tsai, A P, **421**, 347
  Applied physics: Son et lumière, *News and views*, Worlock, J M, Roukes, M L, **421**, 802
  Phonon interpretation of the 'boson peak' in supercooled liquids, *Letter to Nature*, Grigera, T S, Martin-Mayor, V, Parisi, G, Verrocchio, P, **422**, 289
phosphatidylserine, Apoptosis: Dead cell talking, *News and views*, Heemels, M-T, **422**, 829
phosphodiesterase, Structure of the catalytic domain of human phosphodiesterase 5 with bound drug molecules, *Letter to Nature*, Sung, B-J, Hwang, K Y, Jeon, Y H, Lee, J I, Heo, Y-S, Kim, J H, Moon, J, Yoon, J M, Hyun, Y-L, Kim, E, Eum, S J, Park, S-Y, Lee, J-O, Lee, T G, Ro, S, Cho, J M, **425**, 98
phospholipases, Phospholipase Cγ activates Ras on the Golgi apparatus by means of RasGRP1, *Letter to Nature*, Bivona, T G, Pérez de Castro, I, Ahearn, I M, Grana, T M, Chiu, V K, Lockyer, P J, Cullen, P J, Pellicer, A, Cox, A D, Philips, M R, **424**, 694
phosphorescence, Electroluminescent device with reversible switching between red and green emission, *Letter to Nature*, Welter, S, Brunner, K, Hofstraat, J W, De Cola, L, **421**, 54
phosphorus, Judge's sacking rocks Everglades clean-up, *News*, Mason, B, **425**, 551
  Phosphorus: time for us to oust bad spelling, *Correspondence*, Hairston Jr, N, **426**, 119
photocoagulation, Nothing new under the Sun?, *Correspondence*, Moseley, M, **425**, 237
photocopying, Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217
photodynamic therapy, Materials science: Nanoparticles target tumours, *News and views*, Morris, J, **423**, 935
photoemission, Condensed-matter physics: Illuminating behaviour, *News and views*, Bockrath, M, **426**, 511
photoexcitation, Ultrafast terahertz probes of transient conducting and insulating phases in an electron-hole gas, *Letter to Nature*, Kaindl, R A, Carnahan, M A, Hagele, D, Lövenich, R, Chamla, D S, **423**, 734
photography, Smile, it's the world's biggest digital camera, *News in brief*, **422**, 654
  Photos stop as Landsat 7 defies engineers, *News*, Reichhardt, T, **423**, 907
  Taking it on trust, *Science in culture*, Kemp, M, **424**, 618
  Unnatural causes, *Exhibition review*, Abbott, A, **425**, 347
  Unnatural coverage of Chernobyl tragedy, *Correspondence*, Pergams, O R W, **425**, 763

- Force of nature, *Exhibition review*, Abbott, A, **426**, 19
- 1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761
- **photoluminescence**, Chaperonin-mediated stabilization and ATP-triggered release of semiconductor nanoparticles, *Letter to Nature*, Ishii, D, Kinbara, K, Ishida, Y, Ishii, N, Okochi, M, Yohda, M, Aida, T, **423**, 628
- **photomechanics**, Directed bending of a polymer film by light, *Brief communication*, Yu, Y, Nakano, M, Ikeda, T, **425**, 145
- **photomorphogenesis**, LAF1 ubiquitination by COP1 controls photomorphogenesis and is stimulated by SPA1, *Letter to Nature*, Seo, H S, Yang, J-Y, Ishikawa, M, Bolle, C, Ballesteros, M L, Chua, N-H, **423**, 995
- **photonic bandgap fibres**, Low-loss hollow-core silica/air photonic bandgap fibre, *Letter to Nature*, Smith, C M, Venkataraman, N, Gallagher, M T, Müller, D, West, J A, Borrelli, N F, Allan, D C, Koch, K W, **424**, 657
- **photonic crystal fibres**, Transformation and control of ultra-short pulses in dispersion-engineered photonic crystal fibres, *Article*, Reeves, W H, Skryabin, D V, Biancalana, F, Knight, J C, Russell, P St J, Omenetto, F G, Efimov, A, Taylor, A J, **424**, 511
- **photonic crystals**, Electromagnetic waves: Negative refraction by photonic crystals, *Brief communication*, Cubukcu, E, Aydin, K, Ozbay, E, Foteinopoulou, S, Soukoulis, C M, **423**, 604
  - Photonic crystals: Imaging by flat lens using negative refraction, *Brief communication*, Parimi, P V, Lu, W T, Vodo, P, Sridhar, S, **426**, 404
- **photonics**, Optical physics: Voltage manoeuvres on a microlens, *News and views*, Ball, P, **421**, 493
  - Ultra-high-Q toroid microcavity on a chip, *Letter to Nature*, Armani, D K, Kippenberg, T J, Spillane, S M, Vahala, K J, **421**, 925
  - Observation of two-dimensional discrete solitons in optically induced nonlinear photonic lattices, *Letter to Nature*, Fleischer, J W, Segev, M, Efremidis, N K, Christodoulides, D N, **422**, 147
  - Photonics: Light gets a useful shock, *News and views*, Ball, P, **423**, 598
  - Photonics: Drawing a line in silicon, *News and views*, Ball, P, **424**, 385
  - Optics: Mechanism for 'superluminal' tunnelling, *Brief communication*, Winful, H G, **424**, 638
  - Reply: Optics: Mechanism for 'superluminal' tunnelling, *Brief communication*, Buttiker, M, Washburn, S, **424**, 638
  - Low-loss hollow-core silica/air photonic bandgap fibre, *Letter to Nature*, Smith, C M, Venkataraman, N, Gallagher, M T, Müller, D, West, J A, Borrelli, N F, Allan, D C, Koch, K W, **424**, 657
  - Discretizing light behaviour in linear and nonlinear waveguide lattices, *Insight review article*, Christodoulides, D M, Lederer, F, Silberberg, Y, **424**, 817
  - Surface plasmon subwavelengths optics, *Insight review article*, Barnes, W L, Dereux, A, Ebbesen, T W, **424**, 824
  - Optical microcavities, *Insight review article*, Vahala, K, **424**, 839
  - Photonic crystal fibres, *Insight review article*, Knight, J C, **424**, 846
  - Photonics structures in biology, *Insight review article*, Vukusic, P, Sambles, J R, **424**, 852
  - Microphotonics: Tiny laser notches up success, *News and views*, Ball, P, **425**, 143
  - Photonics: Defective quality, *News and views*, Gerstner, E, **425**, 912
  - High-Q photonic nanocavity in a two-dimensional photonic crystal, *Letter to Nature*, Akahane, Y, Asano, T, Song, B-S, Noda, S, **425**, 944
  - Experimental observation of symmetry-breaking nonlinear modes in an active ring, *Letter to Nature*, Demokritov, S O, Serga, A A, Demidov, V E, Hillebrands, B, Kostylev, M P, Kalinikos, B A, **426**, 159
  - Stationary pulses of light in an atomic medium, *Letter to Nature*, Bajcsy, M, Zibrov, A S, Lukin, M D, **426**, 638
- **photons**, Experimental extraction of an entangled photon pair from two identically decohered pairs, *Letter to Nature*, Yamamoto, T, Koashi, M, Ozdemir, S K, Imoto, N, **421**, 343
  - Particle physics: Photon charge reaches new limits, *News and views*, Ball, P, **421**, 709
  - Experimental realization of freely propagating teleported qubits, *Letter to Nature*, Pan, J-W, Gasparoni, S, Aspelmeyer, M, Jennewein, T, Zellinger, A, **421**, 721
  - Applied physics: Son et lumière, *News and views*, Worlock, J M, Roukes, M L, **421**, 802
  - Optics: Ado about nothing much?, *News and views*, Buttiker, M, Washburn, S, **422**, 271
  - Generation of nonclassical photon pairs for scalable quantum communication with atomic ensembles, *Letter to Nature*, Kuzmich, A, Bowen, W P, Boozer, A D, Boca, A, Chou, C W, Duan, L-M, Kimble, H J, **423**, 731
  - Applied physics: To catch a photon, *News and views*, Prober, D E, **425**, 777
- **photoperiodicity**, Adaptation of photoperiodic control pathways produces short-day flowering in rice, *Letter to Nature*, Hayama, R, Yokoi, S, Tamaki, S, Yano, M, Shimamoto, K, **422**, 719
  - Light-induced hormone conversion of T_4 to T_3 regulates photoperiodic response of gonads in birds, *Letter to Nature*, Yoshimura, T, Yasuo, S, Watanabe, M, Iigo, M, Yamamura, T, Hirunagi, K, Ebihara, S, **426**, 178
  - FKF1 is essential for photoperiodic-specific light signalling in *Arabidopsis*, *Letter to Nature*, Imaizumi, T, Tran, H G, Swartz, T E, Briggs, W R, Kay, S A, **426**, 302
- **photopolymers**, The light fantastic, *News feature*, Haw, M, **422**, 556
- **photoreceptors**, Rhodopsin dimers in native disc membranes, *Brief communication*, Fotiadis, D, Liang, Y, Filipek, S, Saperstein, D A, Engel, A, Palczewski, K, **421**, 127
  - Responses of ferns to red light are mediated by an unconventional photoreceptor, *Letter to Nature*, Kawai, H, Kanegae, T, Christensen, S, Kiyosue, T, Sato, Y, Imaizumi, T, Kadota, A, Wada, M, **421**, 287
  - The contribution of *Shaker* K^+ channels to the information capacity of *Drosophila* photoreceptors, *Letter to Nature*, Niven, J E, Vähäsöyrinki, M, Kauranen, M, Hardie, R C, Juusola, M, Weckström, M, **421**, 630
  - Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice, *Letter to Nature*, Hattar, S, Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W, **424**, 76
- **photosynthesis**, Chloroplast to nucleus communication triggered by accumulation of Mg-protoporphyrinIX, *Letter to Nature*, Strand, Å, Asami, T, Alonso, J, Ecker, J R, Chory, J, **421**, 79
  - Responses of ferns to red light are mediated by an unconventional photoreceptor, *Letter to Nature*, Kawai, H, Kanegae, T, Christensen, S, Kiyosue, T, Sato, Y, Imaizumi, T, Kadota, A, Wada, M, **421**, 287
  - Ecology: Shady deals with lichens, *News and views*, Moore, P D, **421**, 591
  - Plants lacking the main light-harvesting complex retain photosystem II macro-organization, *Letter to Nature*, Ruban, A V, Wentworth, M, Yakushevska, A E, Andersson, J, Lee, P J, Keegstra, W, Dekker, J P, Boekema, E J, Jansson, S, Horton, P, **421**, 648
  - Photosynthesis: A new function for an old cytochrome?, *Brief communication*, Molina-Heredia, F P, Wastl, J, Navarro, J A, Bendall, D S, Hervas, M, Howe, C J, De la Rosa, M A, **424**, 33
  - Bacterial photosynthesis genes in a virus, *Brief communication*, Mann, N H, Cook, A, Millard, A, Bailey, S, Clokie, M, **424**, 741
  - The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901
  - Genome divergence in two *Prochlorococcus* ecotypes reflects oceanic niche differentiation, *Letter to Nature*, Rocap, G, Larimer, F W, Lamerdin, J, Malfatti, S, Chain, P, Ahigren, N A, Arellano, S, Coleman, M, Hauser, L, Hess, W R, Johnson, Z I, Land, M, Lindell, D, Post, A F, Regala, W, Shah, M, Shaw, S L, Steglich, C, Sullivan, M B, Ting, C S, Tolonen, A, Webb, E A, Zinser, E R, Chisholm, S W, **424**, 1042
  - Temperature excludes N_2-fixing heterocystous cyanobacteria in the tropical oceans, *Letter to Nature*, Staal, M, Meysman, F J R, Stal, L J, **425**, 504
  - Structural biology: Dual approach to a light problem, *News and views*, Kuhlbrandt, W, **426**, 399
  - An atypical haem in the cytochrome b_6f complex, *Article*, Stroebel, D, Choquet, Y, Popot, J-L, Picot, D, **426**, 413
  - Crystal structure of plant photosystem I, *Article*, Ben-Shem, A, Frolow, F, Nelson, N, **426**, 630
- **photosystem II**, Plants lacking the main light-harvesting complex retain photosystem II macro-organization, *Letter to Nature*, Ruban, A V, Wentworth, M, Yakushevska, A E, Andersson, J, Lee, P J, Keegstra, W, Dekker, J P, Boekema, E J, Jansson, S, Horton, P, **421**, 648
- **phototransduction**, Role of visual pigment properties in rod and cone phototransduction, *Letter to Nature*, Kefalov, V, Fu, Y, Marsh-Armstrong, N, Yau, K-W, **425**, 526
- **phototropism**, Responses of ferns to red light are mediated by an unconventional photoreceptor, *Letter to Nature*, Kawai, H, Kanegae, T, Christensen, S, Kiyosue, T, Sato, Y, Imaizumi, T, Kadota, A, Wada, M, **421**, 287
  - Enhanced gravi- and phototropism in plant *mdr* mutants mislocalizing the auxin efflux protein PIN1, *Letter to Nature*, Noh, B, Bandyopadhyay, A, Peer, W A, Spalding, E P, Murphy, A S, **423**, 999
- **photovoltaic cells**, Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films, *Letter to Nature*, Peumans, P, Uchida, S, Forrest, S R, **425**, 158
- **photovoltaic devices**, Applied physics: Solar cells to dye for, *News and views*, Grätzel, M, **421**, 586
  - A photovoltaic device structure based on internal electron emission, *Letter to Nature*, McFarland, E W, Tang, J, **421**, 616
  - Retraction: Efficient organic photovoltaic diodes based on doped pentacene, *Letter to Nature*, Schön, J H, Kloc, Ch, Bucher, E, Batlogg, B, **422**, 93
- **phyllotaxis**, Regulation of phyllotaxis by polar auxin, *Article*, Reinhardt, D, Pesce, E-R, Stieger, P, Mandel, T, Baltensperger, K, Bennett, M, Traas, J, Friml, J, Kuhlemeier, C, **426**, 255
- **phylogenetics**, Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events, *Letter to Nature*, Bowers, J E, Chapman, B A, Rong, J, Paterson, A H, **422**, 433
  - Genome-scale approaches to resolving incongruence in molecular phylogenies, *Article*, Rokas, A, Williams, B L, King, N, Carroll, S B, **425**, 798
- **phylogenomics**, Branching out, *Concepts*, Charlebois, R L, Beiko, R G, Ragan, M A, **421**, 217
- **phylogeny**, Evolutionary biology: Fractious phylogenies, *News and views*, Kocher, T D, **423**, 489
  - Evolution: Ending incongruence, *News and views*, Gee, H, **425**, 782
  - Genome-scale approaches to resolving incongruence in molecular phylogenies, *Article*, Rokas, A, Williams, B L, King, N, Carroll, S B, **425**, 798
- **physical chemistry**, Physical chemistry: Salts leave fingerprints in acid, *News and views*, Ball, P, **422**, 577
  - Physical Chemistry: Stronger hydrogen bonds, *News and views*, Ball, P, **424**, 630
  - A revolution in optical manipulation, *Insight review article*, Grier, D G, **424**, 810
- **physical sciences**, US budgets for physical endeavour, *News*, Brumfiel, G, **424**, 361
- **physics**, Biology can be helpful to open-minded physicists, *Correspondence*, Li, G, **421**, 111
  - Strict guidelines make it clear who's responsible, *Correspondence*, Sarachik, M P, **421**, 111
  - Gravity experiment sparks spat between physicists, *News*, Brumfiel, G, **421**, 198
  - Spending spree gives German physics a high-energy boost, *News in brief*, **421**, 682
  - On the Shoulders of Giants: The Great Works of Physics and Astronomy, Hawking, S, *Book review by* Gingerich, O, **421**, 694
  - Physicists fail to find saving grace for falsified research, *News*, Ball, P, **421**, 878
  - Physicist discouraged by heightened security, *News*, Brumfiel, G, **422**, 458
  - Leading edge lasers, *Correspondence*, Chattopadhyay, S, **422**, 469
  - Cosmology: A just-so story, *News and views*, Krauss, L M, **423**, 230
  - Physicists doubt that 'corking; could help baseball's big hitter, *News*, Brumfiel, G, **423**, 674
  - Pumping row erodes hopes for underground lab, *News*, Brumfiel, G, **423**, 674
  - Britannica: source of a passion for physics, *Correspondence*, Wong, M-L, **423**, 801
  - Britannica: which edition inspired Schwinger?, *Correspondence*, Wolff, A, **423**, 801
  - Obituary: Ilya Prigogine (1917–2003), *News and views*, Balescu, R, **424**, 30
  - The grand challenges facing physics, *Opinion*, **424**, 355
  - Physics poised for sizeable gains in energy department's wish-list, *News*, Brumfiel, G, **424**, 357
  - Feynman put a personal spin on physics, *Correspondence*, Nickalls, R W D, **425**, 343
  - Applied physics: Spintronics gets a magnetic flute, *News and views*, Sun, J, **425**, 359
  - Biologists join physics preprint club, *News*, Butler, D, **425**, 548
  - Super-cool theories secure physics prize, *News*, Tomlin, S, **425**, 548
  - The Man Who Changed Everything: The Life of James Clerk Maxwell, *Book review*, Mahon, B, Maddox, J, **425**, 765
  - Controlled collisions for multi-particle entanglement of optically trapped atoms, *Letter to Nature*, Mandel, O, Greiner, M, Widera, A, Rom, T, Hänsch, T W, Bloch, I, **425**, 937
  - US reveals physics wish-list in bid for scientific frontier, *News*, Brumfiel, G, **426**, 108
  - Nobel winner helps particle project get back on beam, *News in brief*, **426**, 746
- **physiology**, Physiology: Cost-free longevity in mice, *News and views*, Lithgow, G J, Gill, M S, **421**, 125
  - Physiology: Machinations of the heart's strain gauge, *News and views*, Surridge, C, **421**, 228
  - Physiology: Allometric cascades, *Brief communication*, Banavar, J R, Damuth, J, Martian, A, Rinaldo, A, **421**, 713
  - Physiology: Why does metabolic rate scale with body size, *Brief communication*, West, G B, Savage, V M, Gillooly, J, Enquist, B J, Woodruff, W H, Brown, J H, **421**, 713
  - Reply: Physiology: Allometric cascades, *Brief communication*, Darveau, C A, Suarez, R K, Andrews, R D, Hochachka, P W, **421**, 714
  - Art: A leap into the future, Rockman, A, *Book review*, **423**, 19
  - Physiology: Salty secrets of the Sumatran stingray, *News and views*, Pilcher, H R, **424**, 630
  - Physiology: Fat body sizes fly, *News and views*, Heemels, M-T, **425**, 472
  - Physiology: Foreman in the bone factory, *News and views*, Tromans, A, **425**, 909
  - Physiology: Hotter equals smaller, *News and views*, Pearson, H, **426**, 28
  - Physiology: Fast food, *News and views*, Whitfield, J, **426**, 136
- **phytochrome B**, Dimers of the N-terminal domain of phytochrome B are functional in the nucleus, *Letter to Nature*, Matsushita, T, Mochizuki, N, Nagatani, A, **424**, 571
- **phytochromes**, Regulation of flowering time by light quality, *Letter to Nature*, Cerdán, P D, Chory, J, **423**, 881
  - LAF1 ubiquitination by COP1 controls photomorphogenesis and is stimulated by SPA1, *Letter to Nature*, Seo, H S, Yang, J-Y, Ishikawa, M, Bolle, C, Ballesteros, M L, Chua, N-H, **423**, 995
  - Gating of the rapid shade-avoidance response by the circadian clock in plants, *Letter to Nature*, Salter, M G, Franklin, K A, Whitelam, G C, **426**, 680
- **phytodetritus**, *In situ* experimental evidence of the fate of a phytodetritus pulse at the abyssal sea floor, *Letter to Nature*, Witte, U, Wenzhöfer, F, Sommer, S, Boetius, A, Heinz, P, Aberle, N, Sand, M, Cremer, A, Abraham, W-R, Jorgensen, B B, Pfannkuche, O, **424**, 763
- **phytohormones**, Auxin promotes *Arabidopsis* root growth by modulating gibberellin response, *Letter to Nature*, Fu, X, Harberd, N P, **421**, 740
- ***Phytophthora infestans***, Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15
- **phytoplankton**, The oresmen, *News feature*, Schiermeier, Q, **421**, 109
  - GreenSea's interest in fertilizing sea with iron, *Correspondence*, Rice, M L, **421**, 786
  - Architecture and material properties of diatom shells provide effective mechanical protection, *Letter to Nature*, Hamm, C E,

Merkel, R, Springer, O, Jurkojc, P, Maier, C, Prechtel, K, Smetacek, V, **421**, 841

Oceanography: Bloom in cyclone, *News and views*, Lincoln, T, **424**, 630

Genome sequences from the sea, *News and views*, Fuhrman, J, **424**, 1001

High diversity of unknown picorna-like viruses in the sea, *Letter to Nature*, Culley, A I, Lang, A S, Suttle, C A, **424**, 1054

Oceanography: No go with the floe, *News and views*, Lincoln, T, **425**, 143

The evolutionary inheritance of elemental stoichiometry in marine phytoplankton, *Letter to Nature*, Quigg, A, Finkel, Z V, Irwin, A J, Rosenthal, Y, Ho, T-Y, Reinfelder, J R, Schofield, O, Morel, F M M, Falkowski, P G, **425**, 291

Global carbon cycle: Metabolic balance of the open sea, *Brief communication*, Karl, D M, Laws, E A, Morris, P, Williams, P J l, Emerson, S, **426**, 32

Atmospheric chemistry: Iron injection, *News and views*, Ball, P, **426**, 242

Pica pica, Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363

picoplankton, Self-organization of dissolved organic matter to micelle-like microparticles in river water, *Letter to Nature*, Kerner, M, Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A, **422**, 150

picorna-like viruses, High diversity of unknown picorna-like viruses in the sea, *Letter to Nature*, Culley, A I, Lang, A S, Suttle, C A, **424**, 1054

picrite, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley, S F, Buhre, S, Jacob, D E, **421**, 249

pigs, Virology: Pigs duck out of the influenza mix, *News and views*, Clarke, T, **423**, 702

Piglets add some colour to transgenic story, *News*, Nosengo, N, **424**, 604

Genetics: Secrets of a porkier porker, *News and views*, Gunter, C, **425**, 777

A regulatory mutation in *IGF2* causes a major QTL effect on muscle growth in the pig, *Letter to Nature*, Van Laere, A-S, Nguyen, M, Braunschweig, M, Nezer, C, Collette, C, Moreau, L, Archibald, A L, Haley, C S, Buys, N, Tally, M, Andersson, G, Georges, M, Andersson, L, **425**, 832

pigs, genetically engineered, University grilled over bacon chops' transgenic link, *News in brief*, **421**, 682

PIL1 protein, Gating of the rapid shade-avoidance response by the circadian clock in plants, *Letter to Nature*, Salter, M G, Franklin, K A, Whitelam, G C, **426**, 680

Pin1, Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration, *Letter to Nature*, Liou, Y-C, Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P, **424**, 556

PIN1 protein, Enhanced gravi- and phototropism in plant *mdr* mutants mislocalizing the auxin efflux protein PIN1, *Letter to Nature*, Noh, B, Bandyopadhyay, A, Peer, W A, Spalding, E P, Murphy, A S, **423**, 999

pinocytosis, Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37

Pioneer 10 spacecraft, Solar-System researchers in the dark as probe signs off, *News in brief*, **422**, 8

placebo effect, Placebo: The Belief Effect, Evans, D, *Book review by* Brown, W A, **422**, 118

Eight Preposterous Propositions: From the Genetics of Homosexuality to the Benefits of Global Warming, Ehrlich, R, *Book review by* Gratzer, W, **426**, 766

plagiarism, Preprint server seeks way to halt plagiarists, *News*, Giles, J, **426**, 7

plague, From red peril to red tape, *Opinion*, **423**, 669

Still out in the cold, *News feature*, Brumfiel, G, **423**, 678

Peers rally in support of accused scientist, *News*, Check, E, **425**, 5

Handle with care, *Opinion*, **426**, 1

Plague trial verdict leaves biologists split on biodefence, *News*, Check, E, **426**, 593

Boom, or bust?, *News feature*, Check, E, **426**, 598

planar cell polarity signalling, Fidelity in planar cell polarity signalling, *Letter to Nature*, Ma, D, Yang, C-h, McNeill, H, Simon, M A, Axelrod, J D, **421**, 543

Identification of *Vangl2* and *Scrb1* as planar polarity genes in mammals, *Letter to Nature*, Montcouquiol, M, Rachel, R A, Lanford, P J, Copeland, N G, Jenkins, N A, Kelley, M W, **423**, 173

Planck satellite, Cosmologists look forward to clearer picture, *News*, Reichhardt, T, **421**, 777

planet formation, Planetary science: The core of planet formation, *News and views*, Minarik, B, **422**, 126

Planet Jemma, Planet Jemma, *Website review*, Dennis, C, **426**, 499

planetary atmospheres, Astronomy: Atmosphere out of that world, *News and views*, Charbonneau, D, **422**, 124

An extended upper atmosphere around the extrasolar planet HD209458b, *Letter to Nature*, Vidal-Madjar, A, Lecavelier des Etangs, A, Desert, J-M, Ballester, G E, Ferlet, R, Hébrard, G, Mayor, M, **422**, 143

Planetary science: Pluto's atmospheric surprise, *News and views*, Hubbard, W, **424**, 137

Large changes in Pluto's atmosphere as revealed by recent stellar occultations, *Letter to Nature*, Sicardy, B, Widemann, T, Lellouch, E, Veillet, C, Cuillandre, J-C, Colas, F, Roques, F, Beisker, W, Kretlow, M, Lagrange, A-M, Gendron, E, Lacombe, F, Lecacheux, J, Birnbaum, C, Flenga, A, Leyrat, C, Maury, A, Raynaud, E, Renner, S, Schultheis, M, Brooks, K, Delsanti, A, Halnaut, O R, Gilmozzi, R, Lidman, C, Spyromillo, J, Rapaport, M, Rosenzweig, P, Naranjo, O, Porras, L, Diaz, F, Calderon, H, Carrillo, S, Carvajal, A, Recalde, E, Gaviria Cavero, L, Montalvo, C, Barria, D, Campos, R, Duffard, R, Levato, H, **424**, 168

planetary collisions, High-energy astronomy: Flashes from planet smashes, *News and views*, Ball, P, **424**, 1011

planetary cores, Experimental evidence that potassium is a substantial radioactive heat source in planetary cores, *Letter to Nature*, Rama Murthy, V, van Westrenen, W, Fei, Y, **423**, 163

planetary exploration, Leaving Earth: Space Stations, Rival Superpowers, and the Quest for Interplanetary Travel, Zimmerman, R, *Book review by* Siddiqi, A A, **426**, 498

planetary nebulae, Astronomy: Sprinkler system, *News and views*, Wright, A, **423**, 492

Astronomy: The mystery companion, *News and views*, Soker, N, **426**, 236

planetary science, Planetary science: Sodium at Io, *News and views*, Hunten, D M, **421**, 30

Outer planets: Origins of atmospheric zonal winds, *Brief communication*, Yano, J-I, Talagrand, O, Drossart, P, **421**, 36

Astronomy: Distant planet is the hottest yet, *News and views*, Brown, T M, **421**, 488

An extrasolar planet that transits the disk of its parent star, *Letter to Nature*, Konacki, M, Torres, G, Jha, S, Sasselov, D D, **421**, 507

Planetary science: Volcanism or aqueous alteration on Mars?, *Brief communication*, Hamilton, V E, Christensen, P R, Bandfield, J L, **421**, 711

Reply: Planetary science: Volcanism or aqueous alteration on Mars?, *Brief communication*, Wyatt, M B, McSween Jr, H Y, **421**, 712

Planetary science: Moons on the wander, *News and views*, Clarke, T, **421**, 907

Energetic neutral atoms from a trans-Europa gas torus at Jupiter, *Letter to Nature*, Mauk, B H, Mitchell, D G, Krimigis, S M, Roelof, E C, Paranicas, C P, **421**, 920

Planetary science: Kuiper-belt interlopers, *News and views*, Morbidelli, A, Levison, H F, **422**, 30

Formation of recent martian gullies through melting of extensive water-rich snow deposits, *Letter to Nature*, Christensen, P R, **422**, 45

Astronomy: Atmosphere out of that world, *News and views*, Charbonneau, D, **422**, 124

Planetary science: The core of planet formation, *News and views*, Minarik, B, **422**, 126

An extended upper atmosphere around the extrasolar planet HD209458b, *Letter to Nature*, Vidal-Madjar, A, Lecavelier des Etangs, A, Desert, J-M, Ballester, G E, Ferlet, R, Hébrard, G, Mayor, M, **422**, 143

Core formation in planetesimals triggered by permeable flow, *Letter to Nature*, Yoshino, T, Walter, M J, Katsura, T, **422**, 154

Planetary science: Of asteroids and onions, *News and views*, Wood, J A, **422**, 479

Structure and thermal history of the H-chondrite parent asteroid revealed by thermochronometry, *Letter to Nature*, Trieloff, M, Jessberger, E K, Herrwerth, I, Hopp, J, Flénl, C, Ghelis, M, Bourot-Denise, M, Pellas, P, **422**, 502

NASA homes in on sites for Mars exploration, *News*, Reichhardt, T, **422**, 653

The Life and Death of Planet Earth: How the New Science of Astrobiology Charts the Ultimate Fate of our World, Ward, P D, Brownlee, D, *Book review by* Sleep, N H, **422**, 663

Planetary science: Jupiter's moonopoly, *News and views*, Hamilton, D P, **423**, 235

Mission to Earth's core - a modest proposal, *Brief communication*, Stevenson, D J, **423**, 239

An abundant population of small irregular satellites around Jupiter, *Letter to Nature*, Sheppard, S S, Jewitt, D C, **423**, 261

Chaos-assisted capture of irregular moons, *Letter to Nature*, Astakhov, S A, Burbanks, A D, Wiggins, S, Farrelly, D, **423**, 264

Mars attracts!, *News feature*, Giles, J, **423**, 473

Are you on board?, *News feature*, Butler, D, **423**, 476

A strong decrease in Saturn's equatorial jet at cloud level, *Letter to Nature*, Sánchez-Lavega, A, Pérez-Hoyos, S, Rojas, J F, Hueso, R, French, R G, **423**, 623

Japan joins Europe's bid to get Bepi Colombo to Mercury, *News in brief*, **424**, 8

Planetary science: The history of air, *News and views*, Melosh, H J, **424**, 22

Planetary science: Pluto's atmospheric surprise, *News and views*, Hubbard, W, **424**, 137

Water worlds make a splash as the best hope for alien life, *News*, Schiermeier, Q, **424**, 866

Mars: The devil is in the dust, *News and views*, Leovy, C B, **424**, 1008

Astrophysics: Planetary orbits to the time warp, *News and views*, Baker, J, **425**, 34

Planetary science: Less of an impact, *News and views*, Mason, B, **425**, 573

New Worlds in the Cosmos: The Discovery of Exoplanets, Mayor, M, Frei, P-Y, Roukema, B, *Book review by* Boss, A, **426**, 386

Planetary science: Conveyed to the Kuiper belt, *News and views*, Gomes, R, **426**, 393

The formation of the Kuiper belt by the outward transport of bodies during Neptune's migration, *Letter to Nature*, Levison, H F, Morbidelli, A, **426**, 419

A magnificent seven, *News and views*, Lincoln, T, **426**, 773

Planetary science: Icy martian mysteries, *News and views*, Baker, V R, **426**, 779

Recent ice ages on Mars, *Article*, Head, J W, Mustard, J F, Kreslavsky, M A, Milliken, R E, Marchant, D R, **426**, 797

planetesimals, Planetary science: The core of planet formation, *News and views*, Minarik, B, **422**, 126

Core formation in planetesimals triggered by permeable flow, *Letter to Nature*, Yoshino, T, Walter, M J, Katsura, T, **422**, 154

Planetary science: Of asteroids and onions, *News and views*, Wood, J A, **422**, 479

Structure and thermal history of the H-chondrite parent asteroid revealed by thermochronometry, *Letter to Nature*, Trieloff, M, Jessberger, E K, Herrwerth, I, Hopp, J, Flénl, C, Ghelis, M, Bourot-Denise, M, Pellas, P, **422**, 502

plankton, Palaeoceanographic implications of genetic variation in living North Atlantic *Neogloboquadrina pachyderma*, *Letter to Nature*, Bauch, D, Darling, K, Simstich, J, Bauch, H A, Erienkeuser, H, Kroon, D, **424**, 299

Rapid evolution drives ecological dynamics in a predator–prey system, *Letter to Nature*, Yoshida, T, Jones, L E, Ellner, S P, Fussmann, G F, Hairston Jr, N G, **424**, 303

Plankton effect on cod recruitment in the North Sea, *Letter to Nature*, Beaugrand, G, Brander, K M, Lindley, J A, Souissi, S, Reid, P C, **426**, 661

plant biology, Plant biology: Mobile plastid genes, *News and views*, Maliga, P, **422**, 31

Plant biology: Mutual sanctions, *News and views*, Sprent, J, **422**, 672

Plant biology: Ice on top, *News and views*, Hemmels, M-T, **422**, 677

Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis, *Letter to Nature*, Lodwig, E M, Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S, **422**, 722

Plant biology: Buttercup bondage, *News and views*, Hoag, H, **423**, 598

Plant biology: Growing pains, *News and views*, Heemels, M-T, **423**, 820

Plant biology: Blooming extension at the roadside, *News and views*, Fletcher, P, **424**, 31

Plant biology: Water gate, *News and views*, Holbrook, N M, Zwieniecki, M A, **425**, 361

Cytosolic pH regulates root water transport during anoxic stress through gating of aquaporins, *Letter to Nature*, Tournaire-Roux, C, Sutka, M, Javot, H, Gout, E, Gerbeau, P, Luu, D-T, Bligny, R, Maurel, C, **425**, 393

plant cell biology, Plant cell biology: Ancients rings, *News and views*, Surridge, C, **422**, 275

plant development, Plant development: An axis of auxin, *News and views*, kepinski, S, Leyser, O, **426**, 132

Efflux-dependent auxin gradients establish the apical-basal axis of *Arabidopsis*, *Article*, Friml, J, Vieten, A, Sauer, M, Weijers, D, Schwarz, H, Hamann, T, Offringa, R, Jürgens, G, **426**, 147

Plant development: Leaves by number, *News and views*, Surridge, C, **426**, 237

Regulation of phyllotaxis by polar auxin, *Article*, Reinhardt, D, Pesce, E-R, Stieger, P, Mandel, T, Baltensperger, K, Bennett, M, Traas, J, Friml, J, Kuhlemeier, C, **426**, 255

plant ecology, Plant ecology: Tree-species competition and coexistence, *Brief communication*, Lusk, C, **422**, 580

Plant ecology: Coexistence of tropical tree species, *Brief communication*, Baker, P J, Wilson, J S, **422**, 581

Reply: Plant ecology: Coexistence of tropical tree species, *Brief communication*, Kelly, C, Bowler, M G, **422**, 582

plant hydraulics, The ascent of water, *Concepts*, Tyree, M T, **423**, 923

plant pathogens, Plant-disease experts blighted by red tape, *News*, Knight, J, **424**, 713

plant photosystem I, Crystal structure of plant photosystem I, *Article*, Ben-Shem, A, Frolow, F, Nelson, N, **426**, 630

plant physiology, Plant physiology, *News and views*, Surridge, C, **424**, 385

Plant physiology: Needles point to pollution, *News and views*, Surridge, C, **426**, 784

plant science, Plant science: Self-help for the interactive root, *News and views*, Whitfield, J, **421**, 709

plant viruses, The earliest recorded plant virus disease, *Brief communication*, Saunders, K, Bedford, I D, Yahara, T, Stanley, J, **422**, 831

plants, Fingerprints of global warming on wild animals and plants, *Letter to Nature*, Root, T L, Price, J T, Hall, K R, Schneider, S H, Rosenzweig, C, Pounds, J A, **421**, 57

Transgenic crop trial's gene flow turns weeds into wimps, *News*, Adam, D, **421**, 462

Plants lacking the main light-harvesting complex retain photosystem II macro-organization, *Letter to Nature*, Ruban, A V, Wentworth, M, Yakushevska, A E, Andersson, J, Lee, P J, Keegstra, W, Dekker, J P, Boekema, E J, Jansson, S, Horton, P, **421**, 648

Gene flow might turn wimps into superweeds, *Correspondence*, Muth, N, **421**, 785

Direct measurement of the transfer rate of chloroplast DNA into the nucleus, *Letter to Nature*, Huang, C Y, Ayliffe, M A, Timmis, J N, **422**, 72

Soil invertebrate fauna enhances grassland succession and diversity, *Letter to Nature*, De Deyn, G B, Raaijmakers, C E, Zoomer, H R, Berg, M P, de Ruiter, P C, Verhoef, H A, Bezemer, T M, van der Putten, W H, **422**, 711

Dimers of the N-terminal domain of phytochrome B are functional in the nucleus, *Letter to Nature*, Matsushita, T, Mochizuki, N, Nagatani, A, **424**, 571

Secret garden opens up to public, *News*, Cyranoski, D, **425**, 333

plants, biology, Plant biology: Locks, keys and symbioses, *News and views*, Parniske, M, Downie, J A, **425**, 569

Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases, *Article*, Radutoiu, S, Madsen, L H, Madsen, E B, Felle, H H, Umehara, Y, Gronlund, M, Sato, S, Nakamura, Y, Tabata, S, Sandal, N, Stougaard, J, **425**, 585

A receptor kinase gene of the LysM type is involved in legume perception of rhizobial signals, *Letter to Nature*, Madsen, E B, Madsen, L H, Radutolu, S, Olbryt, M, Rakwalska, M, Szczyglowski, K, Sato, S, Kaneko, T, Tabata, S, Sandal, N, Stougaard, J, **425**, 637

plants, breeding, Plants breeders see benefit of growth in genomics, *News in brief*, **422**, 250

plants, cell wall, SNARE-protein-mediated disease resistance at the plant cell wall, *Letter to Nature*, Collins, N C, Thordal-Christensen, H, Lipka, V, Bau, S, Kombrink, E, Qiu, J-L, Hückelhoven, R, Stein, M, Freialdenhoven, A, Somerville, S C, Schulze-Lefert, P, **425**, 973

plants, circadian rhythm, Gating of the rapid shade-avoidance response by the circadian clock in plants, *Letter to Nature*, Salter, M G, Franklin, K A, Whitelam, G C, **426**, 680

plants, databases, The price of collecting life, *Commentary*, Smith, G F, Steenkamp, Y, Klopper, R R, Siebert, S J, Arnold, T H, **422**, 375

plants, development, The plastid *clpP1* protease gene is essential for plant development, *Letter to Nature*, Kuroda, H, Maliga, P, **425**, 86

plants, diseases, Flowers' sick trick give botanists double trouble, *News*, Whitfield, J, **424**, 712

Plant-disease experts blighted by red tape, *News*, Knight, J, **424**, 713

SNARE-protein-mediated disease resistance at the plant cell wall, *Letter to Nature*, Collins, N C, Thordal-Christensen, H, Lipka, V, Bau, S, Kombrink, E, Qiu, J-L, Hückelhoven, R, Stein, M, Freialdenhoven, A, Somerville, S C, Schulze-Lefert, P, **425**, 973

plants, distribution, African vegetation controlled by tropical sea surface temperatures in the mid-Pleistocene period, *Letter to Nature*, Schefuß, E, Schouten, S, Jansen, J H F, Damste, J S S, **422**, 418

plants, diversity, Ecology: Roots of diversity, *News and views*, Moore, P D, **424**, 26

plants, evolution, Evolution: Flowers to fit the bill, *News and views*, Whitfield, J, **423**, 30

The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901

plants, flowering, Regulation of flowering time by light quality, *Letter to Nature*, Cerdán, P D, Chory, J, **423**, 881

Widespread horizontal transfer of mitochondrial genes in flowering plants, *Letter to Nature*, Bergthorsson, U, Adams, K L, Thomason, B, Palmer, J D, **424**, 197

Flowers' sick trick give botanists double trouble, *News*, Whitfield, J, **424**, 712

plants, fossil, Constant elevation of southern Tibet over the past 15 million years, *Letter to Nature*, Spicer, R A, Harris, N B W, Widdowson, M, Herman, A B, Guo, S, Valdes, P J, Wolfe, J A, Kelley, S P, **421**, 622

Palaeontology: Swimming sperm in an extinct Gondwanan plant, *Brief communication*, Nishida, H, Pigg, K B, Rigby, J F, **422**, 396

Ice-age steppe vegetation in east Beringia, *Brief communication*, Zazula, G D, Froese, D G, Schweger, C E, Mathewes, R W, Beaudoin, A B, Telka, A M, Harington, C R, Westgate, J A, **423**, 603

Palaeobotany: Fishing for the first plants, *News and views*, Kenrick, P, **425**, 248

Fragments of the earliest land plants, *Letter to Nature*, Wellman, C H, Osteloff, P L, Mohiuddin, U, **425**, 282

plants, genetic engineering, Obituary: Jeff Schell (1935-2003), *News and views*, Van Montagu, M, **423**, 934

plants, genome, Pathogen-induced systemic plant signal triggers DNA rearrangements, *Letter to Nature*, Kovalchuk, I, Kovalchuk, O, Kalck, V, Boyko, V, Filkowski, J, Heinlein, M, Hohn, B, **423**, 760

plants, growth, Reactive oxygen species produced by NADPH oxidase regulate plant cell growth, *Letter to Nature*, Foreman, J, Demidchik, V, Bothwell, J H F, Myiona, P, Miedema, H, Torres, M A, Linstead, P, Costa, S, Brownlee, C, Jones, J D G, Davies, J M, Dolan, L, **422**, 442

Enhanced gravi- and phototropism in plant *mdr* mutants mislocalizing the auxin efflux protein PIN1, *Letter to Nature*, Noh, B, Bandyopadhyay, A, Peer, W A, Spalding, E P, Murphy, A S, **423**, 999

plants, guard cells, The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901

A cell surface receptor mediates extracellular Ca^{2+} sensing in guard cells, *Letter to Nature*, Han, S, Tang, R, Anderson, L K, Woerner, T E, Pei, Z-M, **425**, 196

plants, invasive, Release of invasive plants from fungal and viral pathogens, *Letter to Nature*, Mitchell, C E, Power, A G, **421**, 625

Ecology: Under attack, *News and views*, Whitfield, J, **424**, 1011

plants, leaves, The expression domain of *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **424**, 438

Erratum: The expression domain *PHANTASTICA* determines leaflet placement in compound leaves, *Letter to Nature*, Kim, M, McCormick, S, Timmermans, M, Sinha, N, **425**, 102

Control of leaf morphogenesis by microRNAs, *Article*, Palatnik, J F, Allen, E, Wu, X, Schommer, C, Schwab, R, Carrington, J C, Weigel, D, **425**, 257

Plant development: Leaves by number, *News and views*, Surridge, C, **426**, 237

Regulation of phyllotaxis by polar auxin, *Article*, Reinhardt, D, Pesce, E-R, Stieger, P, Mandel, T, Baltensperger, K, Bennett, M, Traas, J, Friml, J, Kuhlemeier, C, **426**, 255

plants, pathogens, Pathogen-induced systemic plant signal triggers DNA rearrangements, *Letter to Nature*, Kovalchuk, I, Kovalchuk, O, Kalck, V, Boyko, V, Filkowski, J, Heinlein, M, Hohn, B, **423**, 760

plants, petals, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123

Growth dynamics underlying petal shape and asymmetry, *Letter to Nature*, Rolland-Lagan, A-G, Bangham, J A, Coen, E, **422**, 161

plants, photonic structures, Photonics structures in biology, *Insight review article*, Vukusic, P, Sambles, J R, **424**, 852

plants, photosynthesis, Chloroplast to nucleus communication triggered by accumulation of Mg-protoporphyrinIX, *Letter to Nature*, Strand, Å, Asami, T, Alonso, J, Ecker, J R, Chory, J, **421**, 79

Responses of ferns to red light are mediated by an unconventional photoreceptor, *Letter to Nature*, Kawai, H, Kanegae, T, Christensen, S, Kiyosue, T, Sato, Y, Imaizumi, T, Kadota, A, Wada, M, **421**, 287

Plants lacking the main light-harvesting complex retain photosystem II macro-organization, *Letter to Nature*, Ruban, A V, Wentworth, M, Yakushevska, A E, Andersson, J, Lee, P J, Keegstra, W, Dekker, J P, Boekema, E J, Jansson, S, Horton, P, **421**, 648

The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901

Structural biology: Dual approach to a light problem, *News and views*, Kuhlbrandt, W, **426**, 399

An atypical haem in the cytochrome b_6f complex, *Article*, Stroebel, D, Choquet, Y, Popot, J-L, Picot, D, **426**, 413

Crystal structure of plant photosystem I, *Article*, Ben-Shem, A, Frolow, F, Nelson, N, **426**, 630

plants, pollination, Pollinator attraction: Crab-spiders manipulate flower signals, *Brief communication*, Heiling, A M, Herberstein, M E, Chittka, L, **421**, 334

Sex and self-denial, *News and views*, Newbigin, E, Vierstra, R D, **423**, 229

Plant biology: Blooming extension at the roadside, *News and views*, Fletcher, P, **424**, 31

Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers, *Letter to Nature*, Bradshaw, H D, Schemske, D, **426**, 176

Heat reward for insect pollinators, *Brief communication*, Seymour, R S, White, C R, Gibernau, M, **426**, 243

plants, reproduction, Assessing the redundancy of MADS-box genes during carpel and ovule development, *Letter to Nature*, Pinyopich, A, Ditta, G S, Savidge, B, Liljegren, S J, Baumann, E, Wisman, E, Yanofsky, M F, **424**, 85

plants, respiration, Atmospheric science: Ultraviolet light and leaf emission of NO$_x$, *Brief communication*, Hari, P, Raivonen, M, Vesala, T, Munger, J W, Pilegaard, K, Kulmala, M, **422**, 134

plants, root growth, Auxin promotes *Arabidopsis* root growth by modulating gibberellin response, *Letter to Nature*, Fu, X, Harberd, N P, **421**, 740

plants, roots, Plant science: Self-help for the interactive root, *News and views*, Whitfield, J, **421**, 709

plants, signalling, Differential regulation of EIN3 stability by glucose and ethylene signalling in plants, *Letter to Nature*, Yanagisawa, S, Yoo, S-D, Sheen, J, **425**, 521

plants, stomata, The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901

plants, transpiration, Getting to the heart of transpiration in plants, *Correspondence*, Tanner, W, **424**, 613

plants, vascular tissue, APL regulates vascular tissue identity in *Arabidopsis*, *Letter to Nature*, Bonke, M, Thitamadee, S, Mahonen, A P, Hauser, M-T, Helariutta, Y, **426**, 181

plants, water transport, Water transport in plants obeys Murray's law, *Letter to Nature*, McCulloh, K A, Sperry, J S, Adler, F R, **421**, 939

The ascent of water, *Concepts*, Tyree, M T, **423**, 923

plasma membrane, Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37

plasma physics, Plasma physics: Cosmic waves in the lab, *News and views*, Boswell, R, **425**, 353

plasma torus, Planetary science: Sodium at Io, *News and views*, Hunten, D M, **421**, 30

Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus, *Letter to Nature*, Lellouch, E, Paubert, G, Moses, J I, Schneider, N M, Strobel, D F, **421**, 45

plasmacytoid dendritic cells, Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zurawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744

plasmas, astrophysical, Cold ions in the hot plasma sheet of Earth's magnetotail, *Letter to Nature*, Seki, K, Hirahara, M, Hoshino, M, Terasawa, T, Elphic, R C, Saito, Y, Mukai, T, Hayakawa, H, Kojima, H, Matsumoto, H, **422**, 589

plasmids, Cell biology: Arrested replication, *News and views*, Eggleston, A K, **426**, 28

Plasmodium, Mosquito production mooted as fast track to malaria vaccine, *News*, Butler, D, **425**. 437

Plasmodium falciparum, Malaria — there could be a third way, *Correspondence*, Miles, M A, **421**, 13

Malaria after the genome, *Editorial*, **421**, 97

Malaria: Pump hijacker, *News and views*, Pearson, H, **423**, 30

Malaria: To kill a parasite, *News and views*, Ridley, R G, **424**, 887

Artemisinins target the SERCA of *Plasmodium falciparum*, *Letter to Nature*, Eckstein-Ludwig, U, Webb, R J, van Goethem, I D A, East, J M, Lee, A G, Kimura, M, O'Neill, P M, Bray, P G, Ward, S A, Krishna, S, **424**, 957

Plasmodium vivax, Malaria: To kill a parasite, *News and views*, Ridley, R G, **424**, 887

plasmons, Controlling anisotropic nanoparticle growth through plasmon excitation, *Letter to Nature*, Jin, R, Cao, Y C, Hao, E, Metraux, G S, Schatz, G C, Mirkin, C A, **425**, 487

plasticity, Developmental Plasticity and Evolution, West-Eberhard, M J, *Book review by* de Jong, G, Crozier, R H, **424**, 16

Flexible arrangement, *Concepts*, Theise, N D, Wilmut, I, **425**, 21

Presynaptic induction of heterosynaptic associative plasticity in the mammalian brain, *Letter to Nature*, Humeau, Y, Shaban, H, Bissiere, S, Luthi, A, **426**, 841

plastics, Low-temperature processing of 'baroplastics' by pressure-induced flow, *Letter to Nature*, Gonzalez-Leon, J A, Acar, M H, Ryu, S-W, Ruzette, A-V G, Mayes, A M, **426**, 424

plastids, Plant biology: Mobile plastid genes, *News and views*, Maliga, P, **422**, 31

The plastid *clpP1* protease gene is essential for plant development, *Letter to Nature*, Kuroda, H, Maliga, P, **425**, 86

plate tectonics, Earth science: Ins and outs on the ocean floor, *News and views*, Sclater, J G, **421**, 590

Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank, *Letter to Nature*, Fisher, A T, Davis, E E, Hutnak, M, Spiess, V, Zühlsdorff, L, Cherkaoui, A, Christiansen, L, Edwards, K, Macdonald, R, Villinger, H, Mottl, M J, Wheat, C G, Becker, K, **421**, 618

Reflection signature of seismic and aseismic slip on the northern Cascadia subduction interface, *Letter to Nature*, Nedimovic, M R, Hyndman, R D, Ramachandran, K, Spence, G D, **424**, 416

Unusually large earthquakes inferred from tsunami deposits along the Kuril trench, *Letter to Nature*, Nanayama, F, Satake, K, Furukawa, R, Shimokawa, K, Atwater, B F, Shigeno, K, Yamaki, S, **424**, 660

Earth science: Tiny triggers deep down, *News and views*, Green II, H W, **424**, 893

Plate tectonics: America claims the Far East, *News and views*, Ball, P, **425**, 472

Earthquakes: Good tidings, *News and views*, Scholz, C H, **425**, 670

Coupled spatial variations in precipitation, *Letter to Nature*, Reiners, P W, Ehlers, T A, Mitchell, S G, Montgomery, D R, **426**, 645

See also **seismic studies**

platelets, Cardiovascular biology: Chilled-out platelets, *News and views*, Pearson, H, **421**, 331

PlayStation, Game on for PlayStations as consoles take quantum leap, *News in brief*, **423**, 578

pleiotropism, Basal body dysfunction is a likely cause of pleiotropic Bardet–Biedl syndrome, *Letter to Nature*, Ansley, S J, Badano, J L, Blacque, O E, Hill, J, Hoskins, B E, Leitch, C C, Kim, J C, Ross, A J, Eichers, E R, Teslovich, T M, Mah, A K, Johnsen, R C, Cavender, J C, Lewis, R A, Leroux, M R, Beales, P L, Katsanis, N, **425**, 628

Pleistocene epoch, Human footprints in Pleistocene volcanic ash, *Brief communication*, Mietto, P, Avanzini, M, Rolandi, G, **422**, 133

African vegetation controlled by tropical sea surface temperatures in the mid-Pleistocene period, *Letter to Nature*, Schefuß, E, Schouten, S, Jansen, J H F, Damste, J S S, **422**, 418

Deep roots in Messinian salinity crisis, *Letter to Nature*, Duggen, S, Hoernle, K, van den Bogaard, P, Rupke, L, Phipps Morgan, J, **422**, 602

Ice-age steppe vegetation in east Beringia, *Brief communication*, Zazula, G D, Froese, D G, Schweger, C E, Mathewes, R W, Beaudoin, A B, Telka, A M, Harington, C R, Westgate, J A, **423**, 603

Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, White, T D, Asfaw, B, DeGusta, D, Gilbert, H, Richards, G D, Suwa, G, Howell, F C, **423**, 742

Stratigraphic, chronological and behavioural contexts of Pleistocene *Homo sapiens* from Middle Awash, Ethiopia, *Letter to Nature*, Clark, J D, Beyene, Y, WoldeGabriel, G, Hart, W K, Renne, P R, Gilbert, H, Defleur, A, Suwa, G, Katoh, S, Ludwig, K R, Boisserie, J-R, Asfaw, B, White, T D, **423**, 747

After the Ice: A Global Human History 20,000–5000 BC, Mithen, S, *Book review by* Bettinger, R, **425**, 453

Rapid body size decline in Alaskan Pleistocene horses before extinction, *Letter to Nature*, Guthrie, R D, **426**, 169

PloS Biology, Who will pay for open access?, *News feature*, Butler, D, **425**, 554

Open access: the JCI has already shown its works, *Correspondence*, Varki, A, **426**, 383

Plume-Lithosphere Undersea Melt Experiment (PLUME), A window on the inner Earth, *News feature*, Dalton, R, **421**, 10

pluripotency genes, Gene expression: Silent clones speak up, *News and views*, Reik, W, Dean, W, **423**, 390

plus-end-binding proteins, Dynamics and mechanics of the microtubule plus end, *Insight review article*, Howard, J, Hyman, A A, **422**, 753

Pluto, Planetary science: Pluto's atmospheric surprise, *News and views*, Hubbard, W, **424**, 137

The recent expansion of Pluto's atmosphere, *Letter to Nature*, Elliot, J L, Ates, A, Babcock, B A, Bosh, A S, Buie, M W, Clancy, K B, Dunham, E W, Elkenberry, S S, Hall, D T, Kern, S D, Leggett, S K, Levine, S E, Moon, D S, Olkin, C B, Osip, D J, Pasachoff, J M, Penprase, B E, Person, M J, Qu, S, Rayner, J T, Roberts Jr, L C, Salyk, C V, Souza, S P, Stone, R C, Taylor, B W, Tholen, D J, Thomas-Osip, J E, Ticehurst, D R, Wasserman, L H, **424**, 165

Large changes in Pluto's atmosphere as revealed by recent stellar occultations, *Letter to Nature*, Sicardy, B, Widemann, T, Lellouch, E, Veillet, C, Cuillandre, J-C, Colas, F, Roques, F, Beisker, W, Kretlow, M, Lagrange, A-M, Gendron, E, Lacombe, F, Lecacheux, J, Birnbaum, C, Flenga, A, Leyrat, C, Maury, A, Raynaud, E, Renner, S, Schultheis, M, Brooks, K, Delsanti, A, Halnaut, O R, Gilmozzi, R, Lidman, C, Spyromillo, J, Rapaport, M, Rosenzweig, P, Naranjo, O, Porras, L, Diaz, F, Calderon, H, Carrillo, S, Carvajal, A, Recalde, E, Gaviria Cavero, L, Montalvo, C, Barria, D, Campos, R, Duffard, R, Levato, H, **424**, 168

plutonium, US to replace Russia's last plutonium plants, *News in brief*, **423**, 578
Britain set to pull the plug on nuclear-fuel reprocessing, *News*, Schiermeier, Q, **425**, 7

PNC1, Nicotinamide and *PNC1* govern lifespan extension by calorie restriction in *Saccharomyces cerevisiae*, *Letter to Nature*, Andersen, R M, Bitterman, K J, Wood, J G, Medvedik, O, Sinclair, D A, **423**, 181

pneumonia, Researchers get to grips with cause of pneumonia epidemic, *News*, Knight, J, **422**, 547

poaching, Grizzly end for environmentalists' bear project, *News in brief*, **424**, 716

poetry, Poetic pride in steps towards knowledge, *Correspondence*, Wong, M-L, **422**, 559

Pogonomyrmex barbatus, Social insects: Cuticular hydrocarbons inform task decisions, *Brief communication*, Greene, M J, Gordon, D M, **423**, 32

Poincaré conjecture, Poincaré proof adds up to potential payday, *News in brief*, **422**, 794
Mathematics: Conjuring with conjectures, *News and views*, Stewart, I, **423**, 124

Poincaré, Henri, Einstein's Clocks and Poincaré's Maps: Empires of Time, Galison, P, *Book review by* Gray, J, **424**, 879

poisoning, Researcher faces life in prison for revenge radiation poisoning, *News in brief*, **425**, 552

Poisson's ratio, Avoiding the shrink, *Concepts*, Baughman, R H, **425**, 667

Poland, Too quiet on the Eastern front, *Editorial*, **421**, 459
Poles apart, or together with Europe?, *News feature*, Schiermeier, Q, **421**, 471
Eastern Europe nurtures talent for the West, *Correspondence*, Gregan, J, **421**, 786
Polish science academy prepares for radical overhaul, *News*, Schiermeier, Q, **422**, 653

polar bears, Roaming polar bears reveal Arctic role of pollutants, *News*, Willerroider, M, **426**, 5

Polar Continental Shelf Project, Scientists call for Canada to boost polar-shelf funding, *News*, Spurgeon, D, **421**, 464
Canada boosts spending on science, *News*, Spurgeon, D, **421**, 880

polar environment, Carbon loss by deciduous trees in a CO$_2$-rich ancient polar environment, *Letter to Nature*, Royer, D L, Osborne, C P, Beerling, D J, **424**, 60

Polar Genome Science Initiative, Genomes take pole position in the icy wastes, *News*, Hoag, H, **421**, 880

polarized light, Polarized light as a butterfly mating signal, *Brief communication*, Sweeney, A, Jiggins, C, Johnsen, S, **423**, 31
Quantum physics: A light touch on quantum strangeness, *News and views*, Ball, P, **426**, 136

polio, Indian cricketers team up to hit polio for six, *News in brief*, **421**, 682
WHO prepares for final push to rid the world of polio, *News*, Butler, D, **424**, 604

political corruption, Governance and the loss of biodiversity, *Letter to Nature*, Smith, R J, Muir, R D J, Walpole, M J, Balmford, A, Leader-Williams, N, **426**, 67

politics, The politics of publication, *Commentary*, Lawrence, P A, **422**, 259
Knowledge and Diplomacy: Science Advice in the United Nations System, Committee for Survey and Analysis of Science Advice on Sustainable Development to International Organizations, Development, Security, and Cooperation, National Research Council, *Book review by* Masood, E, **422**, 471
Science minister's gift triggers political storm, *News in brief*, **422**, 552
Politics hindering SARS work, *Correspondence*, Hsieh, Y-H, **423**, 381
Why should we help politicians to wage war?, *Correspondence*, Amit, D, **423**, 683
Oxford professor accused of discrimination over e-mail, *News*, Watzman, H, **424**, 7
All change at the top for French research, *News in brief*, **424**, 606
Bush accused of power abuse over science, *News*, Check, E, **424**, 715
Politicizing Science: The Alchemy of Policymaking, Gough, M, *Book review* by Grant, P M, **425**, 663
Don't create a climate of fear, *Opinion*, **425**, 885
Democrats condemn government 'meddling' with NIH, *News*, Check, E, **425**, 888
Task force set up to combat threat of political interference, *News*, Check, E, **426**, 218
Precautionary principle cuts costs as well as risks, *Correspondence*, Gilligan, J M, **426**, 227

pollination, Pollinator attraction: Crab-spiders manipulate flower signals, *Brief communication*, Heiling, A M, Herberstein, M E, Chittka, L, **421**, 334
Sex and self-denial, *News and views*, Newbigin, E, Vierstra, R D, **423**, 229
Plant biology: Blooming extension at the roadside, *News and views*, Fletcher, P, **424**, 31
Allele substitution at a flower colour locus produces a pollinator shift in monkeyflowers, *Letter to Nature*, Bradshaw, H D, Schemske, D, **426**, 176
Heat reward for insect pollinators, *Brief communication*, Seymour, R S, White, C R, Gibernau, M, **426**, 243

pollinator attraction, Pollinator attraction: Crab-spiders manipulate flower signals, *Brief communication*, Heiling, A M, Herberstein, M E, Chittka, L, **421**, 334

pollution, Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
World water shortage predicted as pollution problem worsens, *News in brief*, **422**, 8
Detection of human influence on sea-level pressure, *Letter to Nature*, Gillett, N P, Zwiers, F W, Weaver, A J, Stott, P A, **422**, 292
Chemical catastrophe poisons Brazilian rivers, *News in brief*, **422**, 552
Protecting the Ozone Layer: Science and Strategy, Parson, E A, *Book review by* Herrick, C, **422**, 664
Protecting the Ozone Layer: The United Nations History, Anderson, S O, Sarma, K M, *Book review by* Herrick, C, **422**, 664
Biogeochemistry: Heavy metal out of air, *News and views*, Lincoln, T, **423**, 395
Oestrogen receptor hijacked, *News and views*, Brosens, J J, Parker, M G, **423**, 487
Pollution fears put work at neutrino laboratory on hold, *News*, Nosengo, N, **423**, 675
The arsenic green, *Science in culture*, Meharg, A, **423**, 688
Studies assess risks of drugs in water cycle, *News*, Schiermeier, Q, **424**, 5
Detoxification on vinyl chloride to ethene coupled to growth of an anaerobic bacterium, *Letter to Nature*, He, J, Ritalahti, K M, Yang, K-L, Koenigsberg, S S, Löffler, F E, **424**, 62
Court rejects corner-cutting in bid to clear atomic waste, *News in brief*, **424**, 120
Urbanization effects on tree growth in the vicinity of New York City, *Letter to Nature*, Gregg, J W, Jones, C G, Dawson, T E, **424**, 183
Virtual solution to carbon cost of conferences, *Correspondence*, Reay, D S, **424**, 251
Delivery of pollutants by spawning salmon, *Brief communication*, Krummel, E M, Macdonald, R W, Kimpe, L E, Gregory-Eaves, I, Demers, M J, Smol, J P, Finney, B, Blais, J M, **425**, 255
Arctic clean-up project aims to confront Soviet pollution legacy, *News in brief*, **425**, 892
Roaming polar bears reveal Arctic role of pollutants, *News*, Willerroider, M, **426**, 5
Climate study highlights inadequacy of emissions cuts, *News*, Schiermeier, Q, **426**, 486
Plant physiology: Needles point to pollution, *News and views*, Surridge, C, **426**, 784

polybutadiene, Epoxidation of polybutadiene by a topologically linked catalyst, *Letter to Nature*, Thordarson, P, Bijsterveld, E J A, Rowan, A E, Nolte, R J M, **424**, 915

polychlorinated biphenyls, Roaming polar bears reveal Arctic role of pollutants, *News*, Willerroider, M, **426**, 5

polychlorinated dibenzo-*p*-dioxins, Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium, *Letter to Nature*, Bunge, M, Adrian, L, Kraus, A, Opel, M, Lorenz, W G, Andreesen, J R, Görlisch, H, Lechner, U, **421**, 357

***Polycomb* group**, *Bmi-1* determines the proliferative capacity of normal and leukaemic stem cells, *Article*, Lessard, J, Sauvageau, G, **423**, 255

polycrystalline films, An off-normal fibre-like texture in thin films on single-crystal substrates, *Letter to Nature*, Detavernier, C, Ozcan, A S, Jordan-Sweet, J, Stach, E A, Tersoff, J, Ross, F M, Lavoie, C, **426**, 641

polydactyly, Palaeontology: A polydactylous amniote from the Triassic period, *Brief communication*, Wu, X-C, Li, Z, Zhou, B-C, Dong, Z-M, **426**, 516

polydimethylsiloxane, Surface science: What's cooking?, *News and views*, Daw, R, **425**, 34

polygamy, Evolutionary biology: Polygamy and parenting, *News and views*, Pagel, M, **424**, 23

polyglutamine, Pivotal role of oligomerization in expanded polyglutamine neurodegenerative disorders, *Letter to Nature*, Sánchez, I, Mahlke, C, Yuan, J, **421**, 373

polygraphs, Lie probes to continue at US weapons labs, *News*, Brumfiel, G, **422**, 793
US cuts use of lie detectors on job-hunting researchers, *News in brief*, **425**, 115

polymer chemistry, Polymer chemistry: Plastic wrap for nanocircuits, *News and views*, Ball, P, **426**, 402

polymer devices, Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films, *Letter to Nature*, Peumans, P, Uchida, S, Forrest, S R, **425**, 158

polymer films, Retraction: Gate-induced superconductivity in a solution-processed organic polymer film, *Letter to Nature*, Schön, J H, Dodabalapur, A, Bao, Z, Kloc, Ch, Schenker, O, Batlogg, B, **422**, 92
Directed bending of a polymer film by light, *Brief communication*, Yu, Y, Nakano, M, Ikeda, T, **425**, 145

polymer gels, Biomimetics: Gels got rhythm, *News and views*, Daw, R, **422**, 132

polymerase chain reaction, Microfluidics: DNA amplification moves on, *News and views*, deMello, A J, **422**, 28
Developmental biology: Tools for single-cell analysis, *News and views*, Pilcher, H R, **422**, 275
Promega changes tack in battle over patent, *News*, Knight, J, **426**, 373

polymerization, Catalyst hunt accelerates, *News and views*, Percec, V, **424**, 135

polymers, Electronics: Polymers light the way, *News and views*, Holmes, A, **421**, 800
Multi-colour organic light-emitting displays by solution processing, *Letter to Nature*, Müller, D C, Falcou, A, Reckefuss, N, Rojahn, M, Wiederhirn, V, Rudati, P, Frohne, H, Nuyken, O, Becker, H, Meerholz, K, **421**, 829
Materials science: On the straight and narrow, *News and views*, Register, R A, **424**, 378
Epitaxial self-assembly of block copolymers on lithographically defined nanopatterned substrates, *Letter to Nature*, Kim, S O, Solak, H H, Stoykovich, M P, Ferrier, N J, de Pablo, J J, Nealey, P F, **424**, 411
Spider Webs and Silks: tracing Evolution from Molecules to Genes to Phenotypes, Craig, C L, *Book review by* Vollrath, F, **426**, 121
A polymer/semiconductor write-once read-many-times memory, *Letter to Nature*, Moller, S, Perlov, C, Jackson, W, Taussig, C, Forrest, S R, **426**, 166
Organic electronics: Carbon makes contact, *News and views*, Ball, P, **426**, 242
Low-temperature processing of 'baroplastics' by pressure-induced flow, *Letter to Nature*, Gonzalez-Leon, J A, Acar, M H, Ryu, S-W, Ruzette, A-V G, Mayes, A M, **426**, 424

polymers, charged, Lubrication by charged polymers, *Letter to Nature*, Raviv, U, Glasson, S, Kampf, N, Gohy, J-F, Jerome, R, Klein, J, **425**, 163

polyolefins, Catalyst hunt accelerates, *News and views*, Percec, V, **424**, 135

popular science, Esoteric theorist lands starring role in Senate hearing, *News*, Brumfiel, G, **425**, 113

population biology, Ecological interference between fatal diseases, *Letter to Nature*, Rohani, P, Green, C J, Mantilla-Beniers, H B, Grenfell, B T, **422**, 865

population density, Biodiversity: The threat of small households, *News and views*, Keilman, N, **421**, 489
Effects of household dynamics on resource consumption and biodiversity, *Letter to Nature*, Liu, J, Daily, G C, Ehrlich, P R, Luck, G W, **421**, 530

population dispersal, Animal behaviour: Heredity and the bolder bird, *News and views*, Whitfield, J, **421**, 804

population dynamics, The effect of aggressiveness on the population dynamics of a territorial bird, *Letter to Nature*, Mougeot, F, Redpath, S M, Leckie, F, Hudson, P J, **421**, 737
The coast road, *News feature*, Dalton, R, **422**, 10
Evolution in population dynamics, *News and views*, Turchin, P, **424**, 257

population ecology, Population Ecology: First Principles, Vandermeer, J H, Goldberg, D E, *Book review by* Hastings, A, **424**, 881

population genetics, Corrigendum: Contemporary fisherian life-history evolution in small salmonid populations, *Letter to Nature*, Koskinen, M T, Haugen, T O, Primmer, C R, **421**, 656
The evolution of reproductive isolation through sexual conflict, *Letter to Nature*, Martin, O Y, Hosken, D J, **423**, 979

population studies, Error reports threaten to unravel databases of mitochondrial DNA, *News*, Dennis, C, **421**, 773
New ages for human occupation and climatic change at Lake Mungo, Australia, *Letter to Nature*, Bowler, J M, Johnston, H, Olley, J M, Prescott, J R, Roberts, R G, Shawcross, W, Spooner, N A, **421**, 837
Species interactions can explain Taylor's power law for ecological time series, *Correspondence*, Kilpatrick, A M, Ives, A R, **422**, 65
Strong population substructure is correlated with morphology and ecology in a migratory bat, *Letter to Nature*, Miller-Butterworth, C M, Jacobs, D S, Harley, E H, **424**, 187
Complex Population Dynamics: A Theoretical/Empirical Synthesis, Turchin, P, *Book review by* Stenseth, N C, **426**, 18

pores, Asymmetric pores in a silicon membrane acting as massively parallel brownian ratchets, *Letter to Nature*, Matthias, S, Müller, F, **424**, 53

Porifera, Systema Porifera: A Guide to the Classification of Sponges, Hooper, J N A, van Soest, R W M, *Book review by* Berry, L, **421**, 791

Porton Down, Nerve-gas experiments will not go to court, *News in brief*, **424**, 244

positive effect variegation, DNA triplet repeats mediate heterochromatin-protein-1-sensitive variegated gene silencing, *Letter to Nature*, Saveliev, A, Everett, C, Sharpe, T, Webster, Z, Festenstein, R, **422**, 909

post-doctoral research, Congressmen unmoved by foreigners' plight, *News*, Brumfiel, G, **422**, 457
Researchers rage at tightened restrictions on US immigration, *News*, Brumfiel, G, **422**, 457
Chemists' salaries turn south, *News*, Hoag, H, **422**, 650
Postdocs show independent spirit, *News*, Check, E, **424**, 986

post-traumatic stress disorder, Brain region linked to post-terror stress, *News*, Cyranoski, D, **424**, 360

postal systems, Efficiency of equine express postal systems, *Brief communication*, Minetti, A E, **426**, 785

Poste, George, Arizona institute names leader, *News*, Dalton, R, **423**, 6

POT1 protein, POT1 as a terminal transducer of TRF1 telomere length control, *Letter to Nature*, Loayza, D, de Lange, T, **423**, 1013
DNA self-recognition in the structure of Pot1 bound to telomeric single-stranded DNA, *Letter to Nature*, Lei, M, Podell, E R, Baumann, P, Cech, T R, **426**, 198

potassium, Experimental evidence that potassium is a substantial radioactive heat source in planetary cores, *Letter to Nature*, Rama Murthy, V, van Westrenen, W, Fei, Y, **423**, 163

potassium ion channels, The contribution of *Shaker* K^+ channels to the information capacity of *Drosophila* photoreceptors, *Letter to Nature*, Niven, J E, Vähäsöyrinki, M, Kauranen, M, Hardie, R C, Juusola, M, Weckström, M, **421**, 630

Functional analysis of an archaebacterial voltage-dependent K^+ channel, *Letter to Nature*, Ruta, V, Jiang, Y, Lee, A, Chen, J, MacKinnon, R, **422**, 180

X-ray structure of a voltage-dependent K^+ channel, *Article*, Jiang, Y, Lee, A, Chen, J, Ruta, V, Cadene, M, Chait, B T, MacKinnon, R, **423**, 33

The principle of gating charge movement in a voltage-dependent K^+ channel, *Article*, Jiang, Y, Ruta, V, Chen, J, Lee, A, MacKinnon, R, **423**, 42

potato blight, Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15

potatoes, Genomics: A bumper harvest of potato genes, *News and views*, Surridge, C, **421**, 709

poultry, Chicken flu races through Dutch poultry farms, *News*, Abbott, A, **422**, 247

Spread of bird flu triggers Dutch Easter egg hunt, *News in brief*, **422**, 552

poverty, Worldwide agricultural effort aims to help world's poor, *News in brief*, **424**, 606

See also **developing countries**

power laws, A theory of power-law distributions in financial market fluctuations, *Letter to Nature*, Gabaix, X, Gopikrishnan, P, Pierou, V, Stanley, H E, **423**, 267

PPAR-α, Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR-α, *Letter to Nature*, Fu, J, Gaetani, S, Oveisi, F, Verme, J L, Serrano, A, Rodriguez de Fonseca, F, Rosengarth, A, Luecke, H, Di Giacomo, B, Tarzia, G, Piomelli, D, **425**, 91

PPAR-γ, CREB controls hepatic lipid metabolism through nuclear hormone receptor PPAR-γ, *Letter to Nature*, Herzig, S, Hedrick, S, Morantte, I, Koo, S-H, Galimi, F, Montminy, M, **426**, 190

PPL Therapeutics, Dolly firm in trouble after transgenic milk fails to flow, *News*, Hogan, J, **423**, 907

Příbram meteorite, Photographic observations of Neuschwanstein, a second meteorite from the orbit of the Příbram chondrite, *Letter to Nature*, Spurný, P, Oberst, J, Heinlein, D, **423**, 151

prairie dogs, Prairie-dog model offers hope of tackling monkeypox virus, *News*, Knight, J, **423**, 674

Prdx1, Essential role for the peroxiredoxin Prdx1 in erythrocyte antioxidant defence and tumour suppression, *Letter to Nature*, Neumann, C A, Krause, D S, Carman, C V, Das, S, Dubey, D P, Abraham, J L, Bronson, R T, Fujiwara, Y, Orkin, S H, Van Etten, R A, **424**, 561

precautionary principle, Precautionary principle cuts costs as well as risks, *Correspondence*, Gillignan, J M, **426**, 227

precipitation, Coupled spatial variations in precipitation, *Letter to Nature*, Reiners, P W, Ehlers, T A, Mitchell, S G, Montgomery, D R, **426**, 645

Links between erosion, runoff variability and seismicity in the Taiwan orogen, *Letter to Nature*, Dadson, S J, Hovius, N, Chen, H, Dade, W B, Hsieh, M-L, Willett, S D, Hu, J-C, Horng, M-J, Chen, M-C, Stark, C P, Lague, D, Lin, J-C, **426**, 648

Decoupling of erosion and precipitation in the Himalayas, *Letter to Nature*, Burbank, D W, Blythe, A E, Putkonen, J, Pratt-Sitaula, B, Gabet, E, Oskin, M, Barros, A, Ojha, T P, **426**, 652

PRECIS, The price of collecting life, *Commentary*, Smith, G F, Steenkamp, Y, Klopper, R R, Siebert, S J, Arnold, T H, **422**, 375

predation, Patterns of predation in a diverse predator–prey system, *Letter to Nature*, Sinclair, A R E, Mduma, S, Brashares, J S, **425**, 288

predator–prey relationships, Inhibitory feedback required for network oscillatory responses to communication but not prey stimuli, *Letter to Nature*, Doiron, B, Chacron, M J, Maler, L, Longtin, A, Bastian, J, **421**, 539

Non-classical receptive field mediates switch in a sensory neuron's frequency tuning, *Letter to Nature*, Chacron, M J, Doiron, B, Maler, L, Longtin, A, Bastian, J, **423**, 77

Hive beetle causes a buzz in Europe, *News*, Graf, P, **423**, 793

Addendum: Non-classical receptive field mediates switch in a sensory neuron's frequency tuning, *Letter to Nature*, Chacron, M J, Doiron, B, Maler, L, Longtin, A, Bastian, J, **423**, 1018

Evolution in population dynamics, *News and views*, Turchin, P, **424**, 257

Rapid evolution drives ecological dynamics in a predator–prey system, *Letter to Nature*, Yoshida, T, Jones, L E, Ellner, S P, Fussmann, G F, Hairston Jr, N G, **424**, 303

Patterns of predation in a diverse predator–prey system, *Letter to Nature*, Sinclair, A R E, Mduma, S, Brashares, J S, **425**, 288

Arachnology: Scavenging by brown recluse spiders, *Brief communication*, Sandidge, J S, **426**, 30

Evolutionary biology: Spot the difference, *News and views*, Whitfield, J, **426**, 242

premature senescence, Recurrent *de novo* point mutations in lamin A cause Hutchinson–Gilford progeria syndrome, *Letter to Nature*, Eriksson, M, Brown, W T, Gordon, L B, Glynn, M W, Singer, J, Scott, L, Erdos, M R, Robbins, C M, Moses, T Y, Berglund, P, Dutra, A, Pak, E, Durkin, S, Csoka, A B, Boehnke, M, Glover, T W, Collins, F S, **423**, 293

A progeroid syndrome in mice is caused by defects in A-type lamins, *Letter to Nature*, Mounkes, L C, Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L, **423**, 298

DNA helicase Srs2 disrupts the Rad51 presynaptic filament, *Letter to Nature*, Krejci, L, Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P, **423**, 305

The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments, *Letter to Nature*, Veaute, X, Jeusset, J, Soustelle, C, Kowalczykowski, S C, Le Cam, E, Fabre, F, **423**, 309

preprint archives, Biologists join physics preprint club, *News*, Butler, D, **425**, 548

Defamation, online, *Opinion*, **426**, 1

Critical comments threaten to open libel floodgate for physics archive, *News*, Giles, J, **426**, 7

Preprint server seeks way to halt plagiarists, *News*, Giles, J, **426**, 7

presenilin, The role of presenilin cofactors in the γ-secretase complex, *Letter to Nature*, Takasugi, N, Tomita, T, Hayashi, I, Tsuruoka, M, Niimura, M, Takahashi, Y, Thinakaran, G, Iwatsubo, T, **422**, 438

GSK-3α regulates production of Alzheimer's disease amyloid-β peptides, *Letter to Nature*, Phiel, C J, Wilson, C A, Lee, V M-Y, Klein, P S, **423**, 435

Double trouble for neurons, *News and views*, Fortini, M E, **425**, 565

***Prestige* oil tanker disaster**, How to clean a beach, *News feature*, Whitfield, J, **422**, 464

Spanish oil company has Prestige clean-up operation in the bag, *News in brief*, **422**, 552

Priestley, Joseph, 1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761

Prigogine, Ilya, Obituary: Ilya Prigogine (1917–2003), *News and views*, Balescu, R, **424**, 30

primates, Feature: The mosaic that is our genome, *Feature*, Paabo, S, **421**, 409

A spatially organized representation of colour in macaque cortical area V2, *Letter to Nature*, Xiao, Y, Wang, Y, Felleman, D J, **421**, 535

A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61

Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551

Catastrophic ape decline in western equatorial Africa, *Letter to Nature*, Walsh, P D, Abernethy, K A, Bermejo, M, Beyers, R, De Wachter, P, Ella Akou, M, Huijbregts, B, Idiata Mambounga, D, Kamdem Toham, A, Kilbourn, A M, Lahm, S A, Latour, S, Maisels, F, Mbina, C, Mihindou, Y, Ndong Obiang, S, Ntsame Effa, E, Starkey, M P, Telfer, P, Thibault, M, Tutin, C E G, White, L J T, Wilkie, D S, **422**, 611

Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849

Threat of closure hangs heavy over primate centre, *News*, Dalton, R, **423**, 471

Abundant gene conversion between arms of palindromes in human and ape Y chromosomes, *Letter to Nature*, Rozen, S, Skaletsky, H, Marszalek, J D, Minx, P J, Cordum, H S, Waterston, R H, Wilson, R K, Page, D C, **423**, 873

Eating Apes, Peterson, D, *Book review by* owlishaw, G, **424**, 131

China launches primate centre to broaden medical use of monkeys, *News*, Cyranoski, D, **424**, 239

Neurobiology: Caught in the act, *News and views*, Dudai, Y, **424**, 377

Neural correlates of implied motion, *Letter to Nature*, Krekelberg, B, Dannenberg, S, Hoffman, K-P, Bremmer, F, Ross, J, **424**, 674

Behavioural ecology: Father knows best, *News and views*, Sherman, P W, Neff, B D, **425**, 136

True paternal care in a multi-male primate society, *Letter to Nature*, Buchan, J C, Alberts, S C, Silk, J B, Altmann, J, **425**, 179

Monkeys reject unequal pay, *Letter to Nature*, Brosnan, S F, de Waal, F B M, **425**, 297

Intelligence of Apes and Other Rational Beings, Rumbaugh, D M, Washburn, D A, *Book review by* Whiten, A, **425**, 454

Gorilla count resumes as tensions ease in central African forests, *News in brief*, **425**, 652

Pointless suffering of animals can be avoided, *Correspondence*, Barnard, N D, **425**, 661

Primatologists rocks Gibraltar by quitting over macaque cull, *News*, Schiermeier, Q, **426**, 111

Facing up to endangered apes, *Opinion*, **426**, 369

UK primate centre gets the nod but faces cash shortfall, *News in brief*, **426**, 376

Chimp genome hints at little differences that make us human, *News in brief*, **426**, 746

primates, evolution, Palaeontology: Combing the primate record, *News and views*, Martin, R D, **422**, 388

Fossil evidence for an ancient divergence of lorises and galagos, *Letter to Nature*, Seiffert, E R, Simons, E L, Attia, Y, **422**, 421

prion diseases, Prion diseases: BSE in sheep bred for resistance to infection, *Brief communication*, Houston, F, Goldmann, W, Chong, A, Jeffrey, M, Gonzalez, L, Foster, J, Parnham, D, Hunter, N, **423**, 498

Generation of prion transmission barriers by mutational control of amyloid conformations, *Letter to Nature*, Chien, P, DePace, A H, Collins, S R, Weissman, J S, **424**, 948

Horizontal prion transmission in mule deer, *Brief communication*, Miller, M W, Williams, E S, **425**, 35

Routine tests reveal unknown strains of BSE prions, *News*, Willerroider, M, **425**, 648

Prion diseases: A nucleic-acid accomplice, *News and views*, Caughey, B, Kocisko, D A, **425**, 673

Positioning of follicular dendritic cells within the spleen controls prion neuroinvasion, *Letter to Nature*, Prinz, M, Heikenwalder, M, Junt, T, Schwarz, P, Glatzel, M, Heppner, F L, Fu, Y-X, Lipp, M, Aguzzi, A, **425**, 957

Prion diseases: Untangling toxicity, *News and views*, Thomas, C, **426**, 28

Academy calls for improved tests to beat prion disease, *News*, Knight, J, **426**, 216

Rapid drug trial offers hope to CJD patients, *News*, Giles, J, **426**, 487

Koreans rustle up madness-resistant cows, *News*, Cyranoski, D, **426**, 743

Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905

prion proteins, Prion diseases: Untangling toxicity, *News and views*, Thomas, C, **426**, 28

prions, Cell biology: Prion protein, too, shall pass, *News and views*, Bucci, M, **421**, 907

Study breeds cautious optimism over vCJD, *News in brief*, **422**, 8

Monoclonal antibodies inhibit prion replication and delay the development of prion disease, *Letter to Nature*, White, A R, Enever, P, Tayebi, M, Mushens, R, Linehan, J, Brandner, S, Anstee, D, Collinge, J, Hawke, S, **422**, 80

Spongiform encephalopathies: Propagating warped prions, *News and views*, Pearson, H, **422**, 677

How the Cows Turned Mad, Schwartz, M, Schneider, E, *Book review by* Race, R E, **423**, 118

Prion diseases: Cannibals and garbage piles, *News and views*, Aguzzi, A, Heikenwalder, M, **423**, 127

BSE case rattles Canadian officials, *News*, Hoag, H, **423**, 467

Microbiology: Prion as passport, *News and views*, Clarke, T, **424**, 385

RNA molecules stimulate prion protein conversion, *Letter to Nature*, Deleault, N R, Lucassen, R W, Supattapone, S, **425**, 717

privacy, Dispute over data privacy halts cancer study, *News*, Cyranoski, D, **424**, 359

private consulting, Secrecy damages the NIH, *Opinion*, **426**, 739

Accusations of bias prompt NIH review of ethical guidelines, *News*, Knight, J, **426**, 741

privatization, Dangers of privatization, *Opinion*, **424**, 473

US researchers fear job losses from privatization drive, *News*, Dalton, R, **424**, 478

prizes and awards, Shimadzu sees sales rise after Nobel prize, *News in brief*, **421**, 306

Nature's founder gains mark of recognition, *News in brief*, **421**, 307

Clonaid wins 'snake oil' for clone claims, *News in brief*, **422**, 250

In praise of good mentors, *Opinion*, **422**, 359

Hunts for neutrinos and hominids pay off, *News in brief*, **422**, 366

Life's work adds up to prize for maths master, *News in brief*, **422**, 552

Stench of fraud in German odour lab as paper cries foul, *News in brief*, **422**, 794

Women's career award crosses gender divide, *News in brief*, **424**, 362

Europe offers grants to young stars, *News*, Giles, J, **425**, 225

Prizes aplenty honour genetics and astronomy, *News in brief*, **425**, 230

Magnetic pioneers net Nobel for putting medicine in the picture, *News*, Pearson, H, **425**, 547

Super-cool theories secure physics prize, *News*, Tomlin, S, **425**, 548

Spoof Nobels take researchers for a ride, *News*, Nadis, S, **425**, 550

Bendy screens and wobbly world win European award, *News in brief*, **426**, 376

Is science losing out in the race for recognition, *Correspondence*, Friedman, R M, **426**, 495

Pioneers of Microbiology and the Nobel Prize, Lagerkvist, U, *Book review by* Bynum, W F, **426**, 604

See also **Nobel laureates; Nobel prizes**

probability theory, 1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761

problem solving, Discussion of the Method: Conducting the Engineer's Approach to Problem Solving, Koen, B V, *Book review by* Ottino, J M, **425**, 18

Prochlorococcus, Genome sequences from the sea, *News and views*, Fuhrman, J, **424**, 1001

Genome divergence in two *Prochlorococcus* ecotypes reflects oceanic niche differentiation, *Letter to Nature*, Rocap, G, Larimer, F W, Lamerdin, J, Malfatti, S, Chain, P, Ahigren, N A, Arellano, S, Coleman, M, Hauser, L, Hess, W R, Johnson, Z I, Land, M, Lindell, D, Post, A F, Regala, W, Shah, M, Shaw, S L, Steglich, C, Sullivan, M B, Ting, C S, Tolonen, A, Webb, E A, Zinser, E R, Chisholm, S W, **424**, 1042

Cyanophages infecting the oceanic cyanobacterium *Prochlorococcus*, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **424**, 1047

Low-light-adapted *Prochlorococcus* species possess specific antennae for each photosystem, *Letter to Nature*, Bibby, T S, Mary, I, Nield, J, Partensky, F, Barber, J, **424**, 1051

Corrigendum: Cyanophages infecting the oceanic cyanobacterium *Prochlorococcus*, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **426**, 584

productivity, Productivity-biodiversity relationships depend on the history of community assembly, *Letter to Nature*, Fukami, T, Morin, P J, **424**, 423

progeria, Recurrent *de novo* point mutations in lamin A cause Hutchinson–Gilford progeria syndrome, *Letter to Nature*, Eriksson, M, Brown, W T, Gordon, L B, Glynn, M W, Singer, J, Scott, L, Erdos, M R, Robbins, C M, Moses, T Y, Berglund, P, Dutra, A, Pak, E, Durkin, S, Csoka, A B, Boehnke, M, Glover, T W, Collins, F S, **423**, 293

A progeroid syndrome in mice is caused by defects in A-type lamins, *Letter to Nature*, Mounkes, L C, Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L, **423**, 298

Project BioShield, Biotech firms pin hopes on defence, *News*, Pearson, H, **422**, 790

Project Prometheus, Space research goes nuclear, *News*, Brumfiel, G, Hoag, H, **421**, 565
NASA turns sub firm in nuclear power play, *News in brief*, **425**, 892

proliferating cell nuclear antigen, Control of spontaneous and damage-induced mutagenesis by SUMO and ubiquitin conjugation, *Letter to Nature*, Stelter, P, Ulrich, H D, **425**, 188

Promega, Promega changes tack in battle over patent, *News*, Knight, J, **426**, 373

Prometheus (moon of Saturn), Planetary science: Moons on the wander, *News and views*, Clarke, T, **421**, 907

propulsion, Delta-wing function of webbed feet gives hydrodynamic lift for swimming propulsion in birds, *Letter to Nature*, Johansson, L C, Norberg, R A, **424**, 65

Propulsive Small Expendable Deployer System, NASA aims high with orbital transport system, *News*, Reichhardt, T, **423**, 470

prosopagnosia, Psychopysics: Who are you?, *News and views*, Pearson, H, **426**, 136

protease inhibitors, An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus, *Letter to Nature*, Lamarre, D, Anderson, P C, Balley, M, Beaulieu, P, Boiger, G, Bonneau, P, Bos, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, LaPlante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weldon, S M, Yong, C-L, Llinas-Brunet, M, **426**, 186
An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus, *Letter to Nature*, Lamarre, D, Anderson, P C, Bailey, M, Beaulieu, P, Boiger, G, Bonneau, P, Bös, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, Laplante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weidon, S M, Yong, C-L, Llinas-Brunet, M, **426**, 314

proteasomes, Cell biology: Tumour suppressors in the wrecking yard, *News and views*, Plicher, H R, **422**, 487
Protein degradation and protection against misfolded or damaged proteins, *Insight review article*, Goldberg, A L, **426**, 895

protective colouring, Evolutionary biology: Spot the difference, *News and views*, Whitfield, J, **426**, 242

protein assembly, Machinery for protein sorting and assembly in the mitochondrial outer membrane, *Letter to Nature*, Wiedemann, N, Kozjak, V, Chacinska, A, Schönfisch, B, Rospert, S, Ryan, M T, Pfanner, N, Meisinger, C, **424**, 565

protein chemistry, Edwin J. Cohn the Development of Protein Chemistry: With a Detailed Account of His Work on the Fractionation of Blood During an After World War II, Surgenor, D M, *Book review by* Tanford, C, Reynolds, J, **423**, 224

protein coats, Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature, *Letter to Nature*, Bigay, J, Gounon, P, Robineau, S, Antonny, B, **426**, 563

protein degradation, Cell cycle: Degradation ensures integrity, *News and views*, Li, A, Blow, J J, **423**, 818
Protein degradation and protection against misfolded or damaged proteins, *Insight review article*, Goldberg, A L, **426**, 895

protein folding, Corrigendum: Probing the free-energy surface for protein folding with dingle-molecule fluorescence spectroscopy, *Letter to Nature*, Schuler, B, Lipman, E A, Eaton, W A, **421**, 94
The complete folding pathway of a protein from nanoseconds to microseconds, *Letter to Nature*, Mayor, U, Guydosh, N R, Johnson, C M, Grossman, J G, Sato, S, Jas, G S, Freund, S M V, Alonso, D O V, Daggett, V, Fersht, A R, **421**, 863
Hidden complexity in the mechanical properties of titin, *Letter to Nature*, Williams, P M, Fowler, S B, Best, R B, Toca-Herrera, J L, Scott, K A, Steward, A, Clarke, J, **422**, 446
Folding at the speed limit, *Letter to Nature*, Yang, W Y, Gruebele, M, **423**, 193
Prion diseases: A nucleic-acid accomplice, *News and views*, Caughey, B, Kocisko, D A, **425**, 673
RNA molecules stimulate prion protein conversion, *Letter to Nature*, Deleault, N R, Lucassen, R W, Supattapone, S, **425**, 717
Protein folding and misfolding, *Insight review article*, Dobson, C M, **426**, 884
Folding proteins in fatal ways, *Insight review article*, Selkoe, D J, **426**, 900

protein interactions, Protein analysis on a proteomic scale, *Insight review article*, Phizicky, E, Bastiaens, P I H, Zhu, H, Snyder, M, Fields, S, **422**, 208

protein kinases, Cdc42 regulates GSK-3β and adenomatous polyposis coli to control cell polarity, *Letter to Nature*, Etienne-Manneville, S, Hall, A, **421**, 753
Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37
Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2, *Letter to Nature*, Lorenz, K, Lohse, M J, Quitterer, U, **426**, 574
Release of eIF6 (p27BBP) from the 60S subunit allows 80S ribosome assembly, *Letter to Nature*, Ceci, M, Gaviraghi, C, Gorrini, C, Sala, L A, Offenhauser, N, Marchisio, P C, Biffo, S, **426**, 579

protein knots, A tangled problem, *Concepts*, Taylor, W R, Lin, K, **421**, 25

protein machines, Feature: DNA replication and recombination, *Feature*, Alberts, B, **421**, 431

protein microarrays, Disease proteomics, *Insight review article*, Hanash, S, **422**, 226

protein misfolding, Protein folding and misfolding, *Insight review article*, Dobson, C M, **426**, 884
Protein degradation and protection against misfolded or damaged proteins, *Insight review article*, Goldberg, A L, **426**, 895
Folding proteins in fatal ways, *Insight review article*, Selkoe, D J, **426**, 900
Therapeutic approaches to protein-misfolding diseases, *Insight review article*, Cohen, F E, Kelly, J W, **426**, 905
See also **protein folding**

protein sorting, Machinery for protein sorting and assembly in the mitochondrial outer membrane, *Letter to Nature*, Wiedemann, N, Kozjak, V, Chacinska, A, Schönfisch, B, Rospert, S, Ryan, M T, Pfanner, N, Meisinger, C, **424**, 565

protein structure, A magnificent machine, *News and views*, Vallee, R B, Hook, P, **421**, 701
Dynein structure and power stroke, *Article*, Burgess, S A, Walker, M L, Sakakibara, H, Knight, P J, Olwa, K, **421**, 715
The complete folding pathway of a protein from nanoseconds to microseconds, *Letter to Nature*, Mayor, U, Guydosh, N R, Johnson, C M, Grossman, J G, Sato, S, Jas, G S, Freund, S M V, Alonso, D O V, Daggett, V, Fersht, A R, **421**, 863
Three-dimensional structural dynamics of myosin V by single-molecule fluorescence, *Article*, Forkey, J N, Quinlan, M E, Shaw, M A, Corrie, J E T, Goldman, Y E, **422**, 399
Hidden complexity in the mechanical properties of titin, *Letter to Nature*, Williams, P M, Fowler, S B, Best, R B, Toca-Herrera, J L, Scott, K A, Steward, A, Clarke, J, **422**, 446
Canada drives medical protein-structure hunt, *News in brief*, **422**, 462
Structure and nucleic-acid binding of the *Drosphila* Argonaute 2 PAZ domain, *Letter to Nature*, Lingel, A, Simon, B, Izaurralde, E, attler, M, **426**, 465

protein synthesis, A cryo-electron microscopic study of ribosome-bound termination factor RF2, *Letter to Nature*, Rawat, U B S, Zavlalov, A V, Sengupta, J, Valle, M, Grassucci, R A, Linde, J, Vestergaard, B, Ehrenberg, M, Frank, J, **421**, 87
Structure of the *Escherichia coli* ribosomal termination complex with release factor 2, *Letter to Nature*, Klaholz, B P, Pape, T, Zavlalov, A V, Myasnikov, A G, Orlova, E V, Vestergaard, B, Ehrenberg, M, van Heel, M, **421**, 90
Quality control in the endoplasmic reticulum protein factory, *Insight progress*, Sitia, R, Braakman, I, **426**, 891

protein tyrosine kinase, Redox regulation of protein tyrosine phosphate 1B involves a sulphenyl-amide intermediate, *Letter to Nature*, Salmeen, A, Andersen, J N, Myers, M P, Meng, T-C, Hinks, J A, Tonks, N K, Barford, D, **423**, 769

protein tyrosine phosphatase, Redox regulation of protein tyrosine phosphate 1B involves a sulphenyl-amide intermediate, *Letter to Nature*, Salmeen, A, Andersen, J N, Myers, M P, Meng, T-C, Hinks, J A, Tonks, N K, Barford, D, **423**, 769
Oxidation state of the active-site cysteine in protein tyrosine phosphatase 1B, *Letter to Nature*, van Montfort, R L M, Congreve, M, Tisi, D, Carr, R, Jhoti, H, **423**, 773
Eyes absent represents a class of protein tyrosine phosphatase, *Letter to Nature*, Rayapureddi, J P, Kattamuri, C, Steinmetz, B D, Frankfort, B J, Ostrin, E J, Mardon, G, Hegde, R S, **426**, 295
The transcription factor Eyes absent is a protein tyrosine phosphatase, *Letter to Nature*, Tootle, T L, Silver, S J, Davies, E L, Newman, V, Latek, R R, Mills, I A, Selengut, J D, Parlikar, B E W, Rebay, I, **426**, 299

protein–ligand interactions, Computational design of receptor and sensor proteins with novel functions, *Letter to Nature*, Looger, L L, Dwyer, M A, Smith, J J, Hellinga, H W, **423**, 185

proteins, Sugars tied to the spot, *News and views*, Flitsch, S L, Ulijn, R V, **421**, 219
From genomics to proteomics, *Insight overview*, Tyers, M, Mann, M, **422**, 193
Mass spectrometry-based proteomics, *Insight review article*, Aebersold, R, Mann, M, **422**, 198
Protein analysis on a proteomic scale, *Insight review article*, Phizicky, E, Bastiaens, P I H, Zhu, H, Snyder, M, Fields, S, **422**, 208
From words to literature in structural proteomics, *Insight review article*, Sali, A, Glaeser, R, Earnest, T, Baumeister, W, **422**, 216
Proteins and Proteomics: A Laboratory Manual, Simpson, R J, *Book review by* Oliver, S, **422**, 473
Computational design of receptor and sensor proteins with novel functions, *Letter to Nature*, Looger, L L, Dwyer, M A, Smith, J J, Hellinga, H W, **423**, 185
Functional proteomic identification of DNA replication proteins by induced proteolysis *in vivo*, *Article*, Kanemaki, M, Sanchez-Diaz, A, Gambus, A, Labib, K, **423**, 720
This protein belongs to, *News feature*, Cyranoski, D, **426**, 10

proteins, aggregation, Rationalization of the effects of mutations on peptide and protein aggregation rates, *Letter to Nature*, Chiti, F, Stefani, M, Taddei, N, Ramponi, G, Dobson, C M, **424**, 805

proteolysis, Cell cycle: Degradation ensures integrity, *News and views*, Li, A, Blow, J J, **423**, 818

proteomics, Immunology: Geared up for antibody production, *News and views*, Heemels, M-T, **422**, 33
Constellations in a cellular universe, *Commentary*, Aebersold, R, **422**, 115
From genomics to proteomics, *Insight overview*, Tyers, M, Mann, M, **422**, 193
Mass spectrometry-based proteomics, *Insight review article*, Aebersold, R, Mann, M, **422**, 198
Protein analysis on a proteomic scale, *Insight review article*, Phizicky, E, Bastiaens, P I H, Zhu, H, Snyder, M, Fields, S, **422**, 208
Disease proteomics, *Insight review article*, Hanash, S, **422**, 226
Biomedical informatics for proteomics, *Insight review article*, Boguski, M S, McIntosh, M W, **422**, 233
Proteins and Proteomics: A Laboratory Manual, Simpson, R J, *Book review by* Oliver, S, **422**, 473
Genetics and the making of *Homo sapiens*, *Review article*, Carroll, S B, **422**, 849
Functional proteomic identification of DNA replication proteins by induced proteolysis *in vivo*, *Article*, Kanemaki, M, Sanchez-Diaz, A, Gambus, A, Labib, K, **423**, 720
Brain protein project enlists mice in 'dry run', *News*, Abbott, A, **425**, 110
China takes centre stage for liver proteome, *News*, Cyranoski, D, **425**, 441
NIH grant leads energy lab into protein project, *News in brief*, **425**, 652
Proteomics: Where's Waldo in yeast?, *News and views*, Wohlschlegel, J A, Yates, J R, **425**, 671
Global analysis of protein localization in budding yeast, *Article*, Huh, W-K, Falvo, J V, Gerke, L C, Carroll, A S, Howson, R W, Weissman, J S, O'Shea, E K, **425**, 686
Global analysis of protein expression in yeast, *Letter to Nature*, Ghaemmaghami, S, Huh, W-K, Bower, K, Howson, R W, Belle, A, Dephoure, N, O'Shea, E K, Weissman, J S, **425**, 737
Targets of the cyclin-dependent kinase Cdk1, *Letter to Nature*, Ubersax, J A, Woodbury, E L, Quang, P N, Paraz, M, Blethrow, J D, Shah, K, Shokat, K M, Morgan, D O, **425**, 859
Written in blood, *Concepts*, Liotta, L A, Ferrari, M, Petricoin, E, **425**, 905
Proteomic characterization of the human centrosome by protein correlation profiling, *Letter to Nature*, Andersen, J S, Wilkinson, C J, Mayor, T, Mortensen, P, Nigg, E A, Mann, M, **426**, 570
Optimization of specificity in a cellular protein interaction network by negative selection, *Letter to Nature*, Zarrinpar, A, Park, S-H, Lim, W A, **426**, 676

proteomics, structural, From words to literature in structural proteomics, *Insight review article*, Sali, A, Glaeser, R, Earnest, T, Baumeister, W, **422**, 216

proteosome, Neurobiology: Alzheimer's enzyme target, *News and views*, Pearson, H, **425**, 678

Proterozoic eon, Evidence for low sulphate and anoxia in a mid-Proterozoic marine basin, *Letter to Nature*, Shen, Y, Knoll, A H, Walter, M R, **423**, 632
High CO2 levels in the Proterozoic atmosphere estimated from analyses of individual microfossils, *Letter to Nature*, Kaufman, A J, Xiao, S, **425**, 279

proton-sensing receptors, Proton-sensing G-protein-coupled receptors, *Letter to Nature*, Ludwig, M-G, Vanek, M, Guerini, D, Gasser, J A, Jones, C E, Junker, U, Hofstetter, H, Wolf, R M, Seuwen, K, **425**, 93

protons, High-energy physics: Into the fifth dimension, *News and views*, Maldacena, J, **423**, 695
Nuclear physics: It's a knockout, *News and views*, Warner, D, **425**, 570

protoporphyrins, Chloroplast to nucleus communication triggered by accumulation of Mg-protoporphyrinIX, *Letter to Nature*, Strand, Å, Asami, T, Alonso, J, Ecker, J R, Chory, J, **421**, 79

Prozac, Better than Prozac: Creating the New Generation of Psychiatric Drugs, Barondes, S, *Book review by* Iversen, L, **424**, 617

PrP protein, Koreans rustle up madness-resistant cows, *News*, Cyranoski, D, **426**, 743

pseudogenes, Molecular biology: Complicity of gene and pseudogene, *News and views*, Lee, J T, **423**, 26
An expressed pseudogene regulates the messenger-RNA stability of its homologous coding gene, *Letter to Nature*, Hirotsune, S, Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A, **423**, 91
Addendum: An expressed pseudogene regulates the messenger-RNA stability of its homogulous coding gene, *Letter to Nature*, Hirotsune, S, Yoshida, N, Chen, A, Garrett, L, Sugiyama, F, Takahashi, S, Yagami, K-I, Wynshaw-Boris, A, Yoshiki, A, **426**, 100

Pseudomonas aeruginosa, Tiny teamwork, *Concepts*, Greenberg, E P, **424**, 134
A genetic basis for *Pseudomonas aeruginosa* biofilm antibiotic resistance, *Letter to Nature*, Mah, T-F, Pitts, B, Pellock, B, Walker, G C, Stewart, P S, O'Toole, G A, **426**, 306

Pseudomonas fluorescens, Evolution of cooperation and conflict in experimental bacterial populations, *Letter to Nature*, Rainey, P B, Rainey, K, **425**, 72

psychedelic drugs, Ecstasy proposed as help for stress victims, *News in brief*, **425**, 552

psychiatry, Better than Prozac: Creating the New Generation of Psychiatric Drugs, Barondes, S, *Book review by* Iversen, L, **424**, 617
The ups and downs of lithium, *News feature*, Pilcher, H R, **425**, 118
The Confinement of the Insane: International Perspectives, 1800–1965, Porter, R, Wright, D, *Book review by* Grob, G N, **426**, 230

psychoacoustics, Psychoacoustics: Hearing ghosts, *News and views*, Ball, P, **425**, 914

psychoactive drugs, British panel bans use of antidepressant to treat children, *News*, Abbott, A, **423**, 792
Better than Prozac: Creating the New Generation of Psychiatric Drugs, Barondes, S, *Book review by* Iversen, L, **424**, 617

psychology, Original Intelligence: Unlocking the Mystery of Who We Are, Premack, D, Premack, A, *Book review by* Bryant, P, **425**, 17

psychopaths, Violence viewed by psychopathic murderers, *Brief communication*, Gray, N S, MacCulloch, M J, Smith, J, Morris, M, Snowden, R J, **423**, 497

psychophysics, Psychophysics: Is subliminal learning really passive?, *Brief communication*, Seitz, A R, Watanabe, T, **422**, 36

Psychophysics: Bees trade off foraging speed for accuracy, *Brief communication*, Chittka, L, Dyer, A G, Bock, F, Dornhaus, A, **424**, 388
Psychopysics: Who are you?, *News and views*, Pearson, H, **426**, 136
Psychophysics: How fielders arrive in time to catch the ball, *Brief communication*, McLeod, P, Reed, N, Dienes, Z, **426**, 244
pterosaurs, Palaeontology: Smart-winged pterosaurs, *News and views*, Unwin, D M, **425**, 910
Neuroanatomy of flying reptiles and implications for flight, posture and behaviour, *Letter to Nature*, Witmer, L M, Chatterjee, S, Franzosa, J, Rowe, T, **425**, 950
public attitude to science, Bringing down the barriers, *Commentary*, Willems, J, **422**, 470
Debate, what debate?, *Opinion*, **423**, 669
Public input sought on transgenic farming, *News*, Tilstone, C, **423**, 672
Wave of controversies spurs probe into fair presentation of results, *News in brief*, **424**, 868
Dealing with democracy, *Opinion*, **425**, 329
The public has its own view of what is a risk, *Correspondence*, Schuler, E, **425**, 343
Science, Not Art: Ten Scientists' Diaries, Turney, J, *Book review by* Rothwell, N, Blagbrough, S, **425**, 902
public goods games, Volunteering leads to rock-paper-scissors dynamics in a public goods game, *Letter to Nature*, Semmann, D, Krambeck, H-J, Milinski, M, **425**, 390
Public Library of Science, Wellcome to fund publication in open-access journals, *News*, Butler, D, **425**, 440
Who will pay for open access?, *News feature*, Butler, D, **425**, 554
'Open access' will not be open to everyone, *Correspondence*, Ewing, J, **425**, 559
See also **open access**
public participation, Dealing with democracy, *Opinion*, **425**, 329
public relations, Bringing down the barriers, *Commentary*, Willems, J, **422**, 470
PubMed, Online comment could promote unfair criticism, *Correspondence*, Lumsden, A, Raff, M, Sancs, J R, **423**, 918
PubScience, Free access to publicly funded databases is essential, *Correspondence*, Bourne, P E, **421**, 786
Puerto Rico, Shake up for management at Arecibo radio telescope, *News in brief*, **421**, 6
pulsars, Nanosecond radio bursts from strong plasma turbulence in the Crab nebula, *Letter to Nature*, Hankins, T H, Kern, J S, Weatherall, J C, Ellek, J A, **422**, 141
Astrophysics: Superficial resonance, *News and views*, Paerels, F, **423**, 697
Nuclear-powered millisecond pulsars and the maximum spin frequency of neutron stars, *Letter to Nature*, Chakrabarty, D, Morgan, E H, Muno, M P, Galloway, D K, Wijnands, R, van der Klis, M, Markwardt, C B, **424**, 42
Quasi-periodic X-ray brightness fluctuations in an accreting millisecond pulsar, *Letter to Nature*, Wijnands, R, van der Klis, M, Homan, J, Chakrabarty, D, Markwardt, C B, Morgan, E H, **424**, 44
Astrophysics: Pulsar pinpointed, *News and views*, Ball, P, **424**, 740
An increased estimate of the merger rate of double neutron stars from observatories of a highly relativistic system, *Letter to Nature*, Burgay, M, D'Amico, N, Possenti, A, Manchester, R N, Lyne, A G, Joshi, B C, McLaughlin, M, Kramer, M, Sarkissian, J M, Camilo, F, Kalogera, V, Kim, C, Lorimer, D R, **426**, 531
pulsed-field gel electrophoresis, Biologists deploy database to quash drug-resistant bacteria, *News*, Clarke, T, **422**, 791
Purkinje cells, Activation of the TRPC1 cation channel by metabotrophic glutamate receptor mGluR1, *Letter to Nature*, Kim, S J, Kim, Y S, Yuan, J P, Petralia, R S, Worley, P F, Linden, D J, **426**, 285
Purkinje neurons, Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes, *Letter to Nature*, Alvarez-Dolado, M, Pardal, R, Garcia-Verdugo, J M, Fike, J R, Lee, H O, Pfeffer, K, Lois, C, Morrison, S J, Alvarez-Buylla, A, **425**, 968
Purugganan, Michael, Michael Purugganan, *Lifelines*, **421**, 117
pyramidal cells, Organization of cell assemblies in the hippocampus, *Letter to Nature*, Harris, K D, Csicsvari, J, Hirase, H, Dragol, G, Buzsáki, G, **424**, 552
Independent rate and temporal coding in hippocampal pyramidal cells, *Letter to Nature*, Huxter, J, Burgess, N, O'Keefe, J, **425**, 828
pyritization, Biogeochemistry: Ancient oceans and oxygen, *News and views*, Hurtgen, M T, **423**, 592
pyrroloquinoline quinone, Nutrional biochemistry: A new redox-cofactor vitamin for mammals, *Brief communication*, Kasahara, T, Kato, T, **422**, 832

Q factors, Ultra-high-*Q* toroid microcavity on a chip, *Letter to Nature*, Armani, D K, Kippenberg, T J, Spillane, S M, Vahala, K J, **421**, 925
Qesem Cave, Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic, *Letter to Nature*, Barkai, R, Gopher, A, Lauritzen, S E, Frumkin, A, **423**, 977
QuakeSat, Satellites aim to shake up quake predictions, *News*, Reichhardt, T, **424**, 478
Qualcomm, Ex-professor's gift boosts Californian University's funds, *News in brief*, **422**, 366
quantitative trait loci, A regulatory mutation in *IGF2* causes a major QTL effect on muscle growth in the pig, *Letter to Nature*, Van Laere, A-S, Nguyen, M, Braunschweig, M, Nezer, C, Collette, C, Moreau, L, Archibald, A L, Haley, C S, Buys, N, Tally, M, Andersson, G, Georges, M, Andersson, L, **425**, 832
Quantitative Uniform Authorship Declaration, QUAD system offers fair shares to all authors, *Correspondence*, Verhagen, J V, Wallace, K J, Collins, S C, Scott, T R, **426**, 602
quantum bits, Implementation of the Deutsch–Jozsa algorithm on an ion-trap quantum computer, *Letter to Nature*, Guide, S, Riebe, M, Lancaster, G P T, Becher, C, Eschner, J, Häffner, H, Schmidt-Kaler, F, Chuang, I L, Blatt, R, **421**, 48
Long-distance teleportation of qubits at telecommunication wavelengths, *Letter to Nature*, Marcikic, I, de Riedmatten, H, Tittel, W, Zbinden, H, Gisin, N, **421**, 509
Experimental realization of freely propagating teleported qubits, *Letter to Nature*, Pan, J-W, Gasparoni, S, Aspelmeyer, M, Jennewein, T, Zellinger, A, **421**, 721
Quantum computing: The qubit duet, *News and views*, Blatter, G, **421**, 796
Quantum oscillations in two coupled charge qubits, *Letter to Nature*, Pashkin, Yu A, Yamamoto, T, Astaflev, O, Nakamura, Y, Averin, D V, Tsai, J S, **421**, 823
Realization of the Cirac–Zoller controlled-NOT quantum gate, *Letter to Nature*, Schmidt-Kaler, F, Häffner, H, Riebe, M, Guide, S, Lancaster, G P T, Deuschele, T, Becher, C, Roos, C F, Eschner, J, Blatt, R, **422**, 408
Experimental demonstration of a robust, high-fidelity geometric two ion-qubit phase gate, *Letter to Nature*, Leibfried, D, DeMarco, B, Meyer, V, Lucas, D, Barrett, M, Britton, J, Itano, W M, Jelenkovic, B, Langer, C, Rosenband, T, Wineland, D J, **422**, 412
Quantum bits and silicon chips, *News feature*, Hogan, J, **424**, 484
Demonstration of conditional gate operation using superconducting charge qubits, *Letter to Nature*, Yamamoto, T, Pashkin, Y A, Astaflev, O, Nakamura, Y, Tsai, J S, **425**, 941
Demonstration of an all-optical quantum controlled-NOT gate, *Letter to Nature*, O'Brien, J L, Pryde, G J, White, A G, Ralph, T C, Branning, D, **426**, 264
quantum chemistry, Quantum Chemistry: At full stretch, *News and views*, Ball, P, **423**, 598
quantum chromodynamics, High-energy physics: Into the fifth dimension, *News and views*, Maldacena, J, **423**, 695
Particle physics: Strange days, *News and views*, Close, F, **424**, 376
quantum communication, Generation of nonclassical photon pairs for scalable quantum communication with atomic ensembles, *Letter to Nature*, Kuzmich, A, Bowen, W P, Boozer, A D, Boca, A, Chou, C W, Duan, L-M, Kimble, H J, **423**, 731
quantum computation, Experimental entanglement purification of arbitrary unknown states, *Letter to Nature*, Pan, J-W, Gasparoni, S, Ursin, R, Weihs, G, Zeilinger, A, **423**, 417
Demonstration of an all-optical quantum controlled-NOT gate, *Letter to Nature*, O'Brien, J L, Pryde, G J, White, A G, Ralph, T C, Branning, D, **426**, 264
quantum computers, Quantum computing: Putting it into practice, *News and views*, Jones, J, **421**, 28
Implementation of the Deutsch–Jozsa algorithm on an ion-trap quantum computer, *Letter to Nature*, Guide, S, Riebe, M, Lancaster, G P T, Becher, C, Eschner, J, Häffner, H, Schmidt-Kaler, F, Chuang, I L, Blatt, R, **421**, 48
Quantum computing: The qubit duet, *News and views*, Blatter, G, **421**, 796
Quantum oscillations in two coupled charge qubits, *Letter to Nature*, Pashkin, Yu A, Yamamoto, T, Astaflev, O, Nakamura, Y, Averin, D V, Tsai, J S, **421**, 823
Ordering and manipulation of the magnetic moments in large-scale superconducting π-loop arrays, *Letter to Nature*, Hilgenkamp, H, Ariando, Smilde, H-J H, Blank, D H A, Rijnders, G, Rogalla, H, Kirtley, J R, Tsuei, C C, **422**, 50
Quantum computing: Logic gateway, *News and views*, Steane, A, **422**, 387
Realization of the Cirac–Zoller controlled-NOT quantum gate, *Letter to Nature*, Schmidt-Kaler, F, Häffner, H, Riebe, M, Guide, S, Lancaster, G P T, Deuschele, T, Becher, C, Roos, C F, Eschner, J, Blatt, R, **422**, 408
Experimental demonstration of a robust, high-fidelity geometric two ion-qubit phase gate, *Letter to Nature*, Leibfried, D, DeMarco, B, Meyer, V, Lucas, D, Barrett, M, Britton, J, Itano, W M, Jelenkovic, B, Langer, C, Rosenband, T, Wineland, D J, **422**, 412
Nonlinear optics: Braking at room temperature, *News and views*, Ball, P, **422**, 487
Generation of nonclassical photon pairs for scalable quantum communication with atomic ensembles, *Letter to Nature*, Kuzmich, A, Bowen, W P, Boozer, A D, Boca, A, Chou, C W, Duan, L-M, Kimble, H J, **423**, 731
Quantum bits and silicon chips, *News feature*, Hogan, J, **424**, 484
Solid-state physics: Drawing quantum circuitry, *News and views*, Ashoori, R, **424**, 730
Demonstration of conditional gate operation using superconducting charge qubits, *Letter to Nature*, Yamamoto, T, Pashkin, Y A, Astaflev, O, Nakamura, Y, Tsai, J S, **425**, 941
quantum continuous variables, Quantum key distribution using gaussian-modulated coherent states, *Letter to Nature*, Grosshans, F, Van Assche, G, Wenger, J, Brouri, R, Cerf, N J, Grangier, P, **421**, 238
quantum corrals, Pebbles in the nodal pond, *News and views*, Zaanen, J, **422**, 569
Relating atomic-scale electronic phenomena to wave-like quasiparticle states in superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$, *Letter to Nature*, McElroy, K, Simmonds, R W, Hoffman, J E, Lee, D-H, Orenstein, J, Eisaki, H, Uchida, S, Davis, J C, **422**, 592
quantum critical point, Condensed-matter physics: Singular behaviour, *News and views*, Fisk, Z, **424**, 504
The break-up of heavy electrons at a quantum critical point, *Letter to Nature*, Custers, J, Gegenwart, P, Wilhelm, H, Neumaier, K, Tokiwa, Y, Tovarelli, O, Geibel, C, Steglich, F, Pepin, C, Coleman, P, **424**, 524
quantum criticality, Quantum critical behaviour in a high-Tc superconductor, *Letter to Nature*, van der Marel, D, Molegraaf, H J A, Zaanen, J, Nussinov, Z, Carbone, F, Damascelli, A, Eisaki, H, Greven, M, Kes, P H, Li, M, **425**, 271
quantum cryptography, Quantum cryptography: Code-breakers confounded, *News and views*, Hillery, M, **421**, 224
quantum devices, Quantum optics: Single atom lases orderly light, *News and views*, Carmichael, H, Orozco, L A, **425**, 246
quantum dots, The tiny toolkit, *News feature*, Zandonella, C, **423**, 10
Real-time detection of electron tunnelling in a quantum dot, *Letter to Nature*, Lu, W, Ji, Z, Pfeiffer, L, West, K W, Rimberg, A J, **423**, 422
Materials science: Rings of excitement, *News and views*, Helmer, M, **423**, 818
Three-dimensional binary superlattices of magnetic nanocrystals and semiconductor quantum dots, *Letter to Nature*, Redl, F X, Cho, K-S, Murray, C B, O'Brien, S, **423**, 968
quantum dynamics, Quantum dynamics of a single vortex, *Letter to Nature*, Wallraff, A, Lukashenko, A, Lisenfeld, J, Kemp, A, Fistul, V, Koval, Y, Ustinov, A V, **425**, 155
quantum electrodynamics, Particle physics: Brief lives, *News and views*, Wright, A, **423**, 702
quantum electronics, Quantum electronics: The electron is cool, *News and views*, Toschek, P E, **422**, 822
Solid-state physics: Drawing quantum circuitry, *News and views*, Ashoori, R, **424**, 730
Erasable electrostatic lithography for quantum components, *Letter to Nature*, Crook, R, Graham, A C, Smith, C G, Farrer, I, Beere, H E, Ritchie, D A, **424**, 751
quantum gates, Realization of the Cirac–Zoller controlled-NOT quantum gate, *Letter to Nature*, Schmidt-Kaler, F, Häffner, H, Riebe, M, Guide, S, Lancaster, G P T, Deuschele, T, Becher, C, Roos, C F, Eschner, J, Blatt, R, **422**, 408
quantum gravity, Quantum gravity: The quantum of area?, *News and views*, Baez, J, **421**, 702
Quantum gravity: An astrophysical constraint, *News and views*, Carroll, S, **424**, 1007
A strong astrophysical constraint on the violation of special relativity by quantum gravity, *Letter to Nature*, Jacobson, T, Liberati, S, Mattingly, D, **424**, 1019
Astrophysics: A constraint on canonical quantum gravity?, *Brief communication*, Mitrofanov, I G, **426**, 139
quantum information processing, Quantum computing: Putting it into practice, *News and views*, Jones, J, **421**, 28
Experimental entanglement purification of arbitrary unknown states, *Letter to Nature*, Pan, J-W, Gasparoni, S, Ursin, R, Weihs, G, Zeilinger, A, **423**, 417
quantum key distribution, Quantum key distribution using gaussian-modulated coherent states, *Letter to Nature*, Grosshans, F, Van Assche, G, Wenger, J, Brouri, R, Cerf, N J, Grangier, P, **421**, 238
quantum mechanics, Quantum gravity: The quantum of area?, *News and views*, Baez, J, **421**, 702
Nanometre-scale displacement sensing using a single electron transistor, *Letter to Nature*, Knobel, R G, Cleland, A N, **424**, 291
Physical Chemistry: Stronger hydrogen bonds, *News and views*, Ball, P, **424**, 630
Controlled collisions for multi-particle entanglement of optically trapped atoms, *Letter to Nature*, Mandel, O, Greiner, M, Widera, A, Rom, T, Hänsch, T W, Bloch, I, **425**, 937
quantum optics, Obituary: Jean Brossel (1918–2003), *News and views*, Laloe, F, **422**, 274
Quantum optics: Single atom lases orderly light, *News and views*, Carmichael, H, Orozco, L A, **425**, 246
Quantum optics: Light at a standstill, *News and views*, Scully, M O, **426**, 610
quantum phase transitions, Condensed-matter physics: Spurious magnetism in high-T_c superconductor, *Brief communication*, Mang, P K, Larochelle, S, Greven, M, **426**, 139
quantum physics, Quantum physics: The entangling effects of motion, *News and views*, Ball, P, **421**, 228
Experimental extraction of an entangled photon pair from two identically decohered pairs, *Letter to Nature*, Yamamoto, T, Koashi, M, Ozdemir, S K, Imoto, N, **421**, 343
Quantum physics: Wheels within wheels, *News and views*, Smet, J H, **422**, 391
Quantum physics: How cold can you go?, *News and views*, Ball, P, **424**, 143
Quantum physics: Uncertain future, *News and views*, Blencowe, M, **424**, 262
Quantum: A Guide for the Perplexed, Al-Khalili, J, *Book review by* Wilczek, F, **424**, 997
Quantum physics: Entanglement hits the big time, *News and views*, Vedral, V, **425**, 28
Entangled quantum state of magnetic dipoles, *Letter to Nature*, Ghosh, S, Rosenbaum, T F, Aeppli, G, Coppersmith, S N, **425**, 48
Quantum physics: How to make a Schrodinger's cat, *News and views*, Ball, P, **425**, 573
Quantum physics: Seven atoms make a superfluid, *News and views*, Ball, P, **425**, 914
Quantum physics: A light touch on quantum strangeness, *News and views*, Ball, P, **426**, 136
Two teams make quantum leap in quest for merged molecules, *News in brief*, **426**, 220
quantum spin, Condensed-matter physics: Two bodies are better than one, *News and views*, Barbara, B, **421**, 32

quantum teleportation, Long-distance teleportation of qubits at telecommunication wavelengths, *Letter to Nature*, Marcikic, I, de Riedmatten, H, Tittel, W, Zbinden, H, Gisin, N, **421**, 509

Experimental realization of freely propagating teleported qubits, *Letter to Nature*, Pan, J-W, Gasparoni, S, Aspelmeyer, M, Jennewein, T, Zellinger, A, **421**, 721

quantum theory, Violation of a Bell-like inequality in single-neutron interferometry, *Letter to Nature*, Hasegawa, Y, Loidl, R, Badurek, G, Baron, M, Rauch, H, **425**, 45

quantum tunnelling, Condensed-matter physics: Vortices and hearts, *News and views*, Clarke, J, **425**, 133

quarks, Revamped accelerator seeks quark's secrets, *News*, Brumfiel, G, **422**, 248

Quark 'compound' has them all guessing, *News in brief*, **423**, 108

Collision debris yields five-quark particle, *News*, Cyranoski, D, **424**, 7

Particle physics: Strange days, *News and views*, Close, F, **424**, 376

Connecting Quarks With the Cosmos: Eleven Science Questions for the New Century, Committee on the Physics of the Universe, National Research Council of the National Academics, *Book review by* Rees, M, **425**, 239

quasars, Astronomy: Feeding the first quasars, *News and views*, Ferrarese, L, **421**, 329

Spectral signature of cosmological infall of gas around the first quasars, *Letter to Nature*, Barkana, R, Loeb, A, **421**, 341

Cosmology: Do black holes constrain varying constants?, *Brief communication*, Carlip, S, Vaidya, S, **421**, 498

The elemental abundance pattern in a galaxy at $z = 2.626$, *Letter to Nature*, Prochaska, J X, Howk, J C, Wolfe, A M, **423**, 57

Type II supernovae as a significant source of interstellar dust, *Letter to Nature*, Dunne, L, Eales, S, Ivison, R, Morgan, H, Edmunds, M, **424**, 285

Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$, *Letter to Nature*, Walter, F, Bertoldl, F, Carilli, C, Cox, P, Lo, K Y, Neri, R, Fan, X, Omont, A, Strauss, M A, Menten, K M, **424**, 406

The essential signature of a massive starburst in a distant quasar, *Letter to Nature*, Solomon, P, Vanden Bout, P, Carilli, C, Guelin, M, **426**, 636

Astronomy: Wide-angle lens, *News and views*, Wambsganss, J, **426**, 781

A gravitationally lensed quasar with quadruple images separated by 14.62 arcseconds, *Letter to Nature*, Inada, N, Oguri, M, Pindor, B, Hennawi, J F, Chiu, K, Zheng, W, Ichikawa, S-I, Gregg, M D, Becker, R H, Suto, Y, Strauss, M A, Turner, E L, Keeton, C R, Annis, J, Castander, F J, Eisenstein, D J, Frieman, J A, Fukugita, M, Gunn, J E, Johnston, D E, Kent, S M, Nichol, R C, Richards, G T, Rix, H-W, Sheldon, E S, Bahcall, N A, Brinkmann, J, Ivezic, Z, Lamb, D Q, McKay, T A, Schneider, D P, York, D G, **426**, 810

quasi-fission, Nuclear physics: Into the fission valley, *News and views*, Möller, P, Sierk, A J, **422**, 485

quasi-particles, Quantum physics: Wheels within wheels, *News and views*, Smet, J H, **422**, 391

quasicrystals, Direct observation of a local thermal vibration anomaly in a quasicrystal, *Letter to Nature*, Abe, E, Pennycook, S J, Tsai, A P, **421**, 347

quasiparticles, Ultrafast terahertz probes of transient conducting and insulating phases in an electron-hole gas, *Letter to Nature*, Kaindl, R A, Carnahan, M A, Hagele, D, Lövenich, R, Chamla, D S, **423**, 734

Femtophysics: Birth of a quasiparticle, *News and views*, Leitenstorfer, A, **426**, 23

The birth of a quasiparticle in silicon observed in time-frequency space, *Letter to Nature*, Hase, M, Kitajima, M, Constantinescu, A M, Petek, H, **426**, 51

qubits *see* quantum bits

QuinetiQ, Standards-lab staff up in arms over military link, *News*, Giles, J, **425**, 754

Rab proteins, Yip3 catalyses the dissociation of endosomal Rab-GDI complexes, *Letter to Nature*, Sivars, U, Alvazian, D, Pfeffer, S R, **425**, 856

rabbits, Reproductive biology: Mammary messages, *News and views*, Blass, E M, **424**, 25

Chemical and behavioural characterization of the rabbit mammary pheromone, *Letter to Nature*, Schaal, B, Coureaud, G, Langlois, D, Ginies, C, Semon, E, Perrier, G, **424**, 68

rabies, Wolves under threat as rabies outbreak bites, *News in brief*, **425**, 892

Rac1 protein, Neurobiology: Wiring the brain, *News and views*, Pearson, H, **423**, 935

RhoG activates Rac1 by direct interaction with the Dock180-binding protein Elmo, *Letter to Nature*, Katoh, H, Negishi, M, **424**, 461

race, A genetic melting pot, *Concepts*, Feldman, M W, Lewontin, R C, King, M C, **424**, 374

racemic mixtures, Chirality: Organic films with a twist, *News and views*, Ward, M D, **426**, 615

RACK1, Release of eIF6 (p27BBP) from the 60S subunit allows 80S ribosome assembly, *Letter to Nature*, Ceci, M, Gaviraghi, C, Gorrini, C, Sala, L A, Offenhauser, N, Marchisio, P C, Biffo, S, **426**, 579

Rad51 protein, Molecular biology: Disruptive influence, *News and views*, Foiani, M, **423**, 234

radar, Car-safety lobby on collision course with researchers, *News*, Reichhardt, T, **423**, 675

Radar imaging of the lunar poles, *Brief communication*, Campbell, B A, Campbell, D B, Chandler, J F, Hine, A A, Nolan, M C, Perillat, P J, **426**, 137

Radda, George, Report fuels criticism of UK research council, *News*, McDowell, N, **422**, 461

Communication breakdown, *Opinion*, **422**, 545

radiation, Researcher faces life in prison for revenge radiation poisoning, *News in brief*, **425**, 552

radiation damage, DNA repair: Damage alert, *News and views*, Bartek, J, Lukas, J, **421**, 486

Iraqi looters spark alert over radiation risks, *News*, Brumfiel, G, **423**, 370

A dose of the bomb, *News and views*, Little, M P, **424**, 495

Measuring fast neutrons in Hiroshima at distances relevant to atomic-bomb survivors, *Letter to Nature*, Straume, T, Rugel, G, Marchetti, A A, Ruhm, W, Korschinek, G, McAninch, J E, Carroll, K, Egbert, S, Faestermann, T, Knie, K, Martinelli, R, Wallner, A, Wallner, C, **424**, 539

radioactivity, Experimental detection of α-particles from the radioactive decay of natural bismuth, *Letter to Nature*, de Marcillac, P, Coron, N, Dambler, G, Leblanc, J, Moallc, J-P, **422**, 876

Experimental evidence that potassium is a substantial radioactive heat source in planetary cores, *Letter to Nature*, Rama Murthy, V, van Westrenen, W, Fei, Y, **423**, 163

Court rejects corner-cutting in bid to clear atomic waste, *News in brief*, **424**, 120

radioastronomy, Obituary: Groye Reber (1911–2002), *News and views*, Kellermann, K I, **421**, 596

Nanosecond radio bursts from strong plasma turbulence in the Crab nebula, *Letter to Nature*, Hankins, T H, Kern, J S, Weatherall, J C, Ellek, J A, **422**, 141

radioisotopes, ^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **423**, 428

Corrigendum: ^{146}Sm–^{142}Nd evidence from Isua metamorphosed sediments for early differentiation of the Earth's mantle, *Letter to Nature*, Caro, G, Bourdon, B, Birck, J-L, Moorbath, S, **424**, 974

radiometric dating, Radiometric dating of the Siloam Tunnel, Jerusalem, *Letter to Nature*, Frumkin, A, Shimron, A, Rosenbaum, J, **425**, 169

radixin, Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity, *Letter to Nature*, Speck, O, Hughes, S C, Noren, N K, Kulikauskas, R M, Fehon, R G, **421**, 83

Raelians, Raelian cloners 'have two staff and no lab', *News in brief*, **423**, 8

Wave of controversies spurs probe into fair presentation of results, *News in brief*, **424**, 868

Raf kinase inhibitor protein, Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2, *Letter to Nature*, Lorenz, K, Lohse, M J, Quitterer, U, **426**, 574

rafts, Cell biology: Rafting for dear life, *News and views*, Heemels, M-T, **423**, 496

rainbow trout, Anglers face the painful truth, *News in brief*, **423**, 8

rainfall, Severe summertime flooding Europe, *Brief communication*, Christensen, J H, Christensen, O B, **421**, 805

Analysis pours cold water on flood theory, *News*, Schiermeier, Q, **425**, 111

rainforests, Fire science for rainforests, *Review article*, Cochrane, M A, **421**, 913

A Magic Web, Leigh Jr, E G, Ziegler, C, *Book review by* Sack, L, Dechmann, D, **424**, 132

RanGTP, RanGTP mediates nuclear pore complex assembly, *Letter to Nature*, Walther, T C, Askjaer, P, Gentzel, M, Habermann, A, Griffiths, G, Wilm, M, Mattaj, I W, Hetzer, M, **424**, 689

RANK signalling pathway, Osteoclast differentiation and activation, *Insight review article*, Boyle, W J, Simonet, W S, Lacey, D L, **423**, 337

Ranunculus adoneus, Plant biology: Buttercup bondage, *News and views*, Hoag, H, **423**, 598

rare species, Explaining the excess of rare species in natural species abundance distributions, *Letter to Nature*, Magurran, A E, Henderson, P A, **422**, 714

Ras proteins, Cancer: Building blood vessels, *News and views*, Pilcher, H R, **422**, 487

Phospholipase Cγ activates Ras on the Golgi apparatus by means of RasGRP1, *Letter to Nature*, Bivona, T G, Pérez de Castro, I, Ahearn, I M, Grana, T M, Chiu, V K, Lockyer, P J, Cullen, P J, Pellicer, A, Cox, A D, Philips, M R, **424**, 694

rationality hypothesis, Behavioural science: Fair's fair, *News and views*, Bewley, T, **422**, 125

rats, Neurobiology: Whisked to perfection by serotonin, *News and views*, Pilcher, H R, **424**, 507

Rayleigh jets, Coulomb fission: Rayleigh jets from levitated microdroplets, *Brief communication*, Duft, D, Achtzehn, T, Muller, R, Huber, B A, Leisner, T, **421**, 128

RbAp48 protein, Gene regulation: Versatile assembler, *News and views*, Henikoff, S, **423**, 814

reactive oxygen species, Reactive oxygen species produced by NADPH oxidase regulate plant cell growth, *Letter to Nature*, Foreman, J, Demidchik, V, Bothwell, J H F, Myiona, P, Miedema, H, Torres, M A, Linstead, P, Costa, S, Brownlee, C, Jones, J D G, Davies, J M, Dolan, L, **422**, 442

Essential role for the peroxiredoxin Prdx1 in erythrocyte antioxidant defence and tumour suppression, *Letter to Nature*, Neumann, C A, Krause, D S, Carman, C V, Das, S, Dubey, D P, Abraham, J L, Bronson, R T, Fujiwara, Y, Orkin, S H, Van Etten, R A, **424**, 561

reading, The History of Reading, Fischer, S R, *Book review by* Pope, M, **423**, 588

Lost for words, *News feature*, Murphy, G, **425**, 340

reason, In retrospect: An Investigation of the Principles of Knowledge and of the Progress of Reason, from Sense to Science and Philosophy, Hutton, J, *Book review by* Pearson, P, **425**, 665

Flesh in the Age of Reason, Porter, R, *Book review by* Fara, P, **426**, 497

Reber, Groye, Obituary: Groye Reber (1911–2002), *News and views*, Kellermann, K I, **421**, 596

RecBCD enzyme, RecBCD enzyme is a DNA helicase with fast and slow motors of opposite polarity, *Letter to Nature*, Taylor, A F, Smith, G R, **423**, 889

RecBCD enzyme is a bipolar DNA helicase, *Letter to Nature*, Dillingham, M S, Spies, M, Kowalczykowski, S C, **423**, 893

receptor tyrosine kinases, Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab, *Letter to Nature*, Cho, H-S, Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J, **421**, 756

Neurobiology: Signals that make waves, *News and views*, Reichardt, L F, **426**, 25

recognition, Bottlenose dolphins perceive object features through echolocation, *Letter to Nature*, Harley, H E, Putman, E A, Roitblat, H L, **424**, 667

Neuronal populations and single cells representing learned auditory objects, *Letter to Nature*, Gentner, T Q, Margoliash, D, **424**, 669

Psychopysics: Who are you?, *News and views*, Pearson, H, **426**, 136

recombination, Molecular biology: Disruptive influence, *News and views*, Foiani, M, **423**, 234

recreational drugs, Agony for researchers as mix-up forces retraction of ecstasy study, *News*, Knight, J, **425**, 109

Ecstasy's after-effects, *Opinion*, **425**, 223

Uncoupling the agony from ecstasy, *Brief communication*, Mills, E M, Banks, M L, Sprague, J E, Finkel, T, **426**, 403

recycling, A recyclable catalyst that precipitates at the end of the reaction, *Letter to Nature*, Dioumaev, V K, Bullock, R M, **424**, 530

red grouse, The effect of aggressiveness on the population dynamics of a territorial bird, *Letter to Nature*, Mougeot, F, Redpath, S M, Leckie, F, Hudson, P J, **421**, 737

red knot, Physiology: Fast food, *News and views*, Whitfield, J, **426**, 136

red light, Responses of ferns to red light are mediated by an unconventional photoreceptor, *Letter to Nature*, Kawai, H, Kanegae, T, Christensen, S, Kiyosue, T, Sato, Y, Imaizumi, T, Kadota, A, Wada, M, **421**, 287

Red Sea, Global change: Ups and downs in the Red Sea, *News and views*, Sirocko, F, **423**, 813

Sea-level fluctuations during the last glacial cycle, *Letter to Nature*, Siddall, M, Rohling, E J, Almogi-Labin, A, Hemleben, Ch, Meischner, D, Schmelzer, I, Smeed, D A, **423**, 853

redox reactions, Redox regulation of protein tyrosine phosphate 1B involves a sulphenyl-amide intermediate, *Letter to Nature*, Salmeen, A, Andersen, J N, Myers, M P, Meng, T-C, Hinks, J A, Tonks, N K, Barford, D, **423**, 769

redshift, A median redshift of 2.4 for galaxies bright at submillimetre wavelengths, *Letter to Nature*, Chapman, S C, Blain, A W, Ivison, R J, Small, I R, **422**, 695

Type II supernovae as a significant source of interstellar dust, *Letter to Nature*, Dunne, L, Eales, S, Ivison, R, Morgan, H, Edmunds, M, **424**, 285

Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$, *Letter to Nature*, Walter, F, Bertoldl, F, Carilli, C, Cox, P, Lo, K Y, Neri, R, Fan, X, Omont, A, Strauss, M A, Menten, K M, **424**, 406

The essential signature of a massive starburst in a distant quasar, *Letter to Nature*, Solomon, P, Vanden Bout, P, Carilli, C, Guelin, M, **426**, 636

redundancies, Applied Biosystems blames staff layoff on lack of demand, *News in brief*, **421**, 103

reflective displays, Video-speed electronic paper based on electrowetting, *Letter to Nature*, Hayes, R A, Feenstra, B J, **425**, 383

refractive index, Electromagnetic waves: Negative refraction by photonic crystals, *Brief communication*, Cubukcu, E, Aydin, K, Ozbay, E, Foteinopoulou, S, Soukoulis, C M, **423**, 604

Photonic crystals: Imaging by flat lens using negative refraction, *Brief communication*, Parimi, P V, Lu, W T, Vodo, P, Sridhar, S, **426**, 404

Registration, Evaluation and Authorisation of Chemicals (REACH), Time runs short for opponents of chemical-testing rules, *News*, Murphy, G, **424**, 241

reindeer, Nasal bioluminescence in reindeer, *Rangifer tarandus rubens*, *Science in culture*, Kemp, M, **426**, 768

reinforcement, Neurobiology: Dopamine as chicken and egg, *News and views*, Self, D, **422**, 573

relativity, A test of general relativity using radio links with the Cassini spacecraft, *Letter to Nature*, Bertotti, B, Iess, L, Tortora, P, **425**, 374

release factors, A cryo-electron microscopic study of ribosome-bound termination factor RF2, *Letter to Nature*, Rawat, U B S, Zavlalov, A V, Sengupta, J, Valle, M, Grassucci, R A, Linde, J, Vestergaard, B, Ehrenberg, M, Frank, J, **421**, 87

Structure of the *Escherichia coli* ribosomal termination complex with release factor 2, *Letter to Nature*, Klaholz, B P, Pape, T, Zavlalov, A V, Myasnikov, A G, Orlova, E V, Vestergaard, B, Ehrenberg, M, van Heel, M, **421**, 90

religion and science, The Hedgehog, the Fox, and the Magister's Pox: Mending the Gap Between Science and the Humanities, Gould, S J, *Book review by* Hull, D, **422**, 810

A Devil's Chaplain, Dawkins, R, Menon, L, *Book review by* Coyne, J A, **422**, 813

Bioethics: role of religion cannot be ignored, *Correspondence*, McSorley, S J, **425**, 763

Renaissance, Luminet's illuminations, *Science in culture*, Kemp, M, **426**, 232

renewable energy sources, Experts cast doubt on Britain's green energy ambitions, *News*, McDowell, N, **421**, 879
reproduction, Reproduction: Widespread cloning in echinoderm larvae, *Brief communication*, Eaves, A A, Palmer, A R, **425**, 146
  Reproduction: Being compatible, *News and views*, Pilcher, H R, **425**, 678
  Evolutionary biology: Scramble for the eggs, *News and views*, Gage, M J G, **426**, 22
  Sophisticated sperm allocation in male fowl, *Letter to Nature*, Pizzari, T, Cornwallis, C K, Levile, H, Jakobsson, S, Birkhead, T R, **426**, 70
reproduction, birds, Light-induced hormone conversion of T_4 to T_3 regulates photoperiodic response of gonads in birds, *Letter to Nature*, Yoshimura, T, Yasuo, S, Watanabe, M, Iigo, M, Yamamura, T, Hirunagi, K, Ebihara, S, **426**, 178
reproductive biology, Reproductive biology: Mammary messages, *News and views*, Blass, E M, **424**, 25
  Chemical and behavioural characterization of the rabbit mammary pheromone, *Letter to Nature*, Schaal, B, Coureaud, G, Langlois, D, Ginies, C, Semon, E, Perrier, G, **424**, 68
  Reproductive biology: Forming an attachment, *News and views*, Thomas, C, **425**, 33
reproductive cloning, Reproductive cloning: an attack on human dignity, *Correspondence*, Leader, D P, **424**, 14
  Reproductive cloning: don't rush to judgement, *Correspondence*, Robertson, J A, **424**, 14
reproductive isolation, The evolution of reproductive isolation through sexual conflict, *Letter to Nature*, Martin, O Y, Hosken, D J, **423**, 979
reptiles, Ecology: Nuclear reptiles, *News and views*, Whitfield, J, **422**, 275
  Reptile study will add scale to evolutionary genetics, *News in brief*, **424**, 988
  Large Cretaceous sphenodontian from Patagonia provides insight into lepidosaur evolution in Gondwana, *Letter to Nature*, Apesteguia, S, Novas, F E, **425**, 609
  Ocean currents mediate evolution in islands lizards, *Letter to Nature*, Calsbeek, R, Smith, T B, **426**, 552
  Predicting distributions of known and unknown reptile species in Madagascar, *Letter to Nature*, Raxworthy, C J, Martinez-Meyer, E, Horning, N, Nussbaum, R A, Schneider, G E, Ortega-Huerta, M A, Peterson, A T, **426**, 837
reptiles, flying, Palaeontology: Smart-winged pterosaurs, *News and views*, Unwin, D M, **425**, 910
  Neuroanatomy of flying reptiles and implications for flight, posture and behaviour, *Letter to Nature*, Witmer, L M, Chatterjee, S, Franzosa, J, Rowe, T, **425**, 950
research and development, Universities could gain from backing biotech, *Correspondence*, Kamb, A, **422**, 113
  Tapping the power of small institutions, *Commentary*, Keusch, G T, Medlin, C A, **422**, 561
  Commission lays foundations for rise in research spending, *News*, Butler, D, **423**, 6
  Brazil's R&D agenda, *Opinion*, **423**, 367
  Brazilian brain experts plan research village, *News*, Hoag, H, **423**, 372
  Under new management, *News feature*, Adam, D, **423**, 379
research funding, Overseas abuse of China's development, *Editorial*, **421**, 1
  Petition calls for clampdown on absentee Chinese researchers, *News*, Cyranoski, D, **421**, 3
  Bleak outlook for universities as state budget deficits bite, *News*, Dalton, R, **421**, 5
  US societies unite in plea for boost to research budgets, *News*, Brumfiel, G, **421**, 100
  Funding should recognize the value of peer review, *Correspondence*, Dominiczak, M H, **421**, 111
  University of California faces wave of budget cuts, *News in brief*, **421**, 202
  Head of Spanish lab network quits over lack of funds, *News*, Salomone, M, **421**, 462
  British science courses face high fees and low interest, *News in brief*, **421**, 466
  Venezuelan researchers call for international help, *Correspondence*, Mendoza, C, Urbina, J A, **421**, 473
  Biologists wary that cash up front could mean cuts later, *News*, Check, E, **421**, 677
  Hints of age bias spur calls for grant reforms, *News*, Cyranoski, D, Kandachi, K, **421**, 680
  Neuroscientists cruise for research-centre funding, *News in brief*, **421**, 682
  Researchers fear the future as Congress settles 2003 budget, *News*, Hoag, H, **421**, 774
  Venezuelan government is backing science, *Correspondence*, Cabrera, J L, Guerrero, L E, Donoso, A, **421**, 786
  Canada boosts spending on science, *News*, Spurgoen, D, **421**, 880
  India budgets for boost in research, *News*, Jayaraman, K S, **422**, 6
  NATO reform promises more publicity for less science, *News*, Schiermeier, Q, **422**, 248
  Venezuela: crisis puts major institutions at risk, *Correspondence*, Requena, J, **422**, 257
  Venezuela: the other side of the story, *Correspondence*, Sucre, M G, Marcano, L, Padrón, R, Acosta, J, Burguillos, L, **422**, 257
  Academics fume as university refuses to reject tobacco dollars, *News*, Dalton, R, **422**, 361
  Report fuels criticism of UK research council, *News*, McDowell, N, **422**, 461
  Communication breakdown, *Opinion*, **422**, 545
  Polish science academy prepares for radical overhaul, *News*, Schiermeier, Q, **422**, 653
  National Academics launch grants for interdisciplinary work, *News*, Check, E, **422**, 791
  Should tobacco ban rule out governments too?, *Correspondence*, Jope, R S, **422**, 802
  A chance for change in France, *Opinion*, **423**, 1
  French researchers demand radical overhaul of funding, *News*, Butler, D, **423**, 6
  Japanese system buries the individual researcher, *Correspondence*, Dan, I, **423**, 221
  Pros and cons of centralization, *Opinion*, **423**, 787
  German reform plan arouses fear for autonomy, *News*, Schiermeier, Q, **423**, 790
  Grants plan paves way for Europe-wide funding body, *News in brief*, **424**, 244
  Red tape frustrates Europe's fund-seekers, *News*, Jox, R, **424**, 605
  Japan's fraudsters face years without grants, *News in brief*, **425**, 336
  Europe kills cash flow to EURESCO science meetings, *News*, Schiermeier, Q, **425**, 890
  Cancer grant chief denies Harvard bias, *News in brief*, **426**, 221
resignations, Los Alamos directors resign after row over sacked whistleblowers, *News*, Brumfiel, G, **421**, 99
  Resignations rock mathematics institute, *News*, Brumfiel, G, **421**, 303
  Head of Australian stem-cell centre quits to return to science, *News in brief*, **424**, 716
resistance genes, Fitness costs of R-gene-mediated resistance in *Arabidopsis thaliana*, *Letter to Nature*, Tian, D, Traw, M B, Chen, J Q, Kretman, M, Bergelson, J, **423**, 74
resonant tunnelling diodes, Solid-state physics: Drawing quantum circuitry, *News and views*, Ashoori, R, **424**, 730
respiration, Scaling metabolism from organisms to ecosystems, *Letter to Nature*, Enquist, B J, Economo, E P, Huxman, T E, Allen, A P, Ignace, D D, Gillooly, J F, **423**, 639
respiratory disease, Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
  Loss of integrin αvβ6-mediated TGF-β activation causes Mmp12-dependent emphysema, *Letter to Nature*, Morris, D G, Huang, X, Kaminski, N, Wang, Y, Shapiro, S D, Dolganov, G, Glick, A, Sheppard, D, **422**, 169
  Health labs focus on mystery pneumonia, *News*, Cyranoski, D, **422**, 247
  Mystery virus slow to yield its identity as patient numbers rise, *News*, Pearson, H, **422**, 364
  China joins investigation of mystery pneumonia, *News*, Cyranoski, D, **422**, 459
  There are two sides to biodefence, *Opinion*, **422**, 545
  Cancer conference scrapped as outbreak intensifies, *News*, Clarke, T, **422**, 547
  Researchers get to grips with cause of pneumonia epidemic, *News*, Knight, J, **422**, 547
  Chinese authorities admit mishandling of Guangdong crisis, *News*, Cyranoski, D, **422**, 548
  Infection risk puts the brakes on Canada's biomedical research, *News*, Clarke, T, **422**, 652
  Taiwan left isolated in fight against SARS, *News*, Cyranoski, D, **422**, 652
  Gene patents and the public good, *Opinion*, **423**, 207
  Aetiology: Koch's postulates fulfilled for SARS virus, *Brief communication*, Fouchier, R A M, Kuiken, T, Schutten, M, van Amerongen, G, van Doornum, G J J, van den Hoogen, B G, Peiris, M, Lim, W, Stohr, K, Osterhaus, A D M E, **423**, 240
  Animal studies hint at staying power of SARS, *News*, Pearson, H, **423**, 370
  Politics hindering SARS work, *Correspondence*, Hsieh, Y-H, **423**, 381
  Virus detectives seek source of SARS in China's wild animals, *News*, Cyranoski, D, Abbott, A, **423**, 467
  Taiwan slams health officials for 'lack of help' over SARS, *News in brief*, **423**, 472
  Pet theory comes to the fore in fight against SARS, *News*, Abbott, A, **423**, 576
  SARS, a challenge from the South, *Correspondence*, Singh, J A, **423**, 585
  SARS anxiety disrupts conferences, *News in brief*, **423**, 676
  China and Germany join forces over SARS, *News*, Abbott, A, **423**, 791
  WHO issues rallying cry to keep fight against SARS on track, *News*, Cyranoski, D, **423**, 905
  We have been warned, *Opinion*, **424**, 113
  Was the fuss overblown?, *News feature*, Pearson, H, **424**, 121
  Is the outbreak finally over?, *News feature*, Clarke, T, **424**, 122
  Are we prepared for the next viral threat?, *News feature*, Abbott, A, **424**, 123
  How and who does SARS kill?, *News feature*, Knight, J, **424**, 123
  Where did the SARS virus come from?, *News feature*, Cyranoski, D, **424**, 124
  Why China?, *News feature*, Cyranoski, D, **424**, 124
  Are drugs for SARS on the horizon?, *News feature*, Abbott, A, **424**, 125
  Is the SARS virus mutating?, *News feature*, Knight, J, **424**, 125
  What about a vaccine?, *News feature*, Clarke, T, **424**, 126
  Improved SARS test cuts final case count in United States, *News in brief*, **424**, 362
  Quest for SARS source gathers pace in bid to thwart resurgence, *News*, Abbott, A, **424**, 983
  Immunology: Arresting asthma, *News and views*, Pilcher, H R, **425**, 34
  SARS triggers biomedical shake-up in China, *News*, Cyranoski, D, **425**, 333
  SARS virus infection of cats and ferrets, *Brief communication*, Martina, B E E, Haagmans, B L, Kuiken, T, Fouchier, R A M, Rimmelzwaan, G F, van Amerongen, G, Peiris, J S M, Lim, W, Osterhaus, A D M E, **425**, 915
  Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus, *Letter to Nature*, Li, W, Moore, M J, Vasilieva, N, Sui, J, Wong, S K, Berne, M A, Somasundaran, M, Sullivan, J L, Luzuriaga, K, Greenough, T C, Choe, H, Farzan, M, **426**, 450
  Epidemics-in-waiting, *News and views*, Bull, J, Dykhuizen, D, **426**, 609
  China: From SARS to the stars, *News feature*, Cyranoski, D, **426**, 752
restoration, Philology: The pages of history, *Book review*, Abbott, A, **423**, 588
resveratrol, Drinking your health? It's too early to say, *Correspondence*, Corder, R, Crozier, A, Kroon, P A, **426**, 119
reticular synthesis, Reticular synthesis and the design of new materials, *Review article*, Yaghi, O M, O'Keeffe, M, Ockwig, N W, Chae, H K, Eddaoudi, M, Kim, J, **423**, 705
retina, The retina's fancy tricks, *News and views*, Masland, R H, **423**, 387
  Segregation of object and background motion in the retina, *Article*, Ölveczky, B P, Baccus, S A, Meister, M, **423**, 401
  Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice, *Letter to Nature*, Hattar, S, Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W, **424**, 76
  Parallel colour-opponent pathways to primary visual cortex, *Letter to Nature*, Chatterjee, S, Callaway, E M, **426**, 668
retinal photocoagulation, Nothing new under the Sun?, *Correspondence*, Moseley, M, **425**, 237
retinoblastoma, Developmental biology: A twist in a mouse tale, *News and views*, Dyson, N, **421**, 903
  Extra-embryonic function of Rb is essential for embryonic development and viability, *Letter to Nature*, Wu, L, de Bruin, A, Saavedra, H I, Starovic, M, Trimboll, A, Yang, Y, Opavska, J, Wilson, P, Thompson, J C, Ostrowski, M C, Rosol, T J, Woollett, L A, Weinstein, M, Cross, J C, Robinson, M L, Leone, G, **421**, 942
  Tumour suppressors: Timing will tell, *News and views*, Berns, A, **424**, 140
  Acute mutation of retinoblastoma gene function is sufficient for cell cycle re-entry, *Letter to Nature*, Sage, J, Miller, A L, Pérez-Mancera, P A, Wysocki, J M, Jacks, T, **424**, 223
retinoblastoma proteins, Cell biology: Tumour suppressors in the wrecking yard, *News and views*, Plicher, H R, **422**, 487
retinoic acid, Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Article*, Kawasaki, H, Taira, K, **423**, 838
  Retraction: Hes1 is a target of microRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells, *Letter to Nature*, Kawasaki, H, Taira, K, **426**, 100
retirement, Arizona State University plans clear-out of faculty, *News in brief*, **424**, 716
retroflections, Oceanography: The brawniest retroflection, *News and views*, Gordon, A L, **421**, 904
retrotransposons, Genomics: DNA double agent, *News and views*, Pilcher, H R, **425**, 143
retroviruses, HIV: Cross-talk and viral reservoirs, *News and views*, Pomerantz, R J, **424**, 136
  Virology: Suppressing a terminator, *News and views*, Eggleston, A K, **426**, 136
Reuven Ramaty High Energy Solar Spectroscopic Imager, Polarization of the prompt γ-ray emission from the γ-ray burst of 6 December 2002, *Letter to Nature*, Coburn, W, Boggs, S E, **423**, 415
reverse genetics, 'Reverse genetics' could offer forward-thinking flu vaccine, *News*, Pearson, H, **426**, 742
reverse transcriptase, Virology: Suppressing a terminator, *News and views*, Eggleston, A K, **426**, 136
reverse transcription, Broad antiretroviral defence by human APOBEC3G through lethal editing of nascent reverse transcripts, *Letter to Nature*, Mangeat, B, Turelli, P, Caron, G, Friedli, M, Perrin, L, Trono, D, **424**, 99
reward-seeking behaviour, Neurobiology: Dopamine as chicken and egg, *News and views*, Self, D, **422**, 573
  Monkeys reject unequal pay, *Letter to Nature*, Brosnan, S F, de Waal, F B M, **425**, 297
RF2, A cryo-electron microscopic study of ribosome-bound termination factor RF2, *Letter to Nature*, Rawat, U B S, Zavlalov, A V, Sengupta, J, Valle, M, Grassucci, R A, Linde, J, Vestergaard, B, Ehrenberg, M, Frank, J, **421**, 87
  Structure of the *Escherichia coli* ribosomal termination complex with release factor 2, *Letter to Nature*, Klaholz, B P, Pape, T, Zavlalov, A V, Myasnikov, A G, Orlova, E V, Vestergaard, B, Ehrenberg, M, van Heel, M, **421**, 90
rhenium, Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas, *Letter to Nature*, Sun, W, Bennett, V C, Eggins, S M, Kamenetsky, V S, Arculus, R J, **422**, 294
rheumatoid arthritis, Evolving concepts of rheumatoid arthritis, *Insight review article*, Firestein, G S, **423**, 356
  Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice, *Letter to Nature*, Sakaguchi, N, Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S, **426**, 454
rhizobia, Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis, *Letter to Nature*, Lodwig, E M, Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S, **422**, 722

Host sanctions and the legume–rhizobium mutualism, *Letter to Nature*, Kiers, E T, Rousseau, R A, West, S A, Denison, R F, **425**, 78
A receptor kinase gene of the LysM type is involved in legume perception of rhizobial signals, *Letter to Nature*, Madsen, E B, Madsen, L H, Radutolu, S, Olbryt, M, Rakwalska, M, Szczyglowski, K, Sato, S, Kaneko, T, Tabata, S, Sandal, N, Stougaard, J, **425**, 637

Rho GTPases, Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity, *Letter to Nature*, Speck, O, Hughes, S C, Noren, N K, Kulikauskas, R M, Fehon, R G, **421**, 83

rhodopsin, Rhodopsin dimers in native disc membranes, *Brief communication*, Fotiadis, D, Liang, Y, Filipek, S, Saperstein, D A, Engel, A, Palczewski, K, **421**, 127
Biophysics: Is rhodopsin dimeric in native retinal rods?, *Brief communication*, Chabre, M, Cone, R, Saibil, H, **426**, 30
Reply: Biophysics: Is rhodopsin dimeric in native retinal rods?, *Brief communication*, Fotiadis, D, Liang, Y, Filipek, S, Saperstein, D A, Engel, A, Palczewski, K, **426**, 31
Vision: An eye for colour, *News and views*, Pilcher, H R, **426**, 618

RhoG, RhoG activates Rac1 by direct interaction with the Dock180-binding protein Elmo, *Letter to Nature*, Katoh, H, Negishi, M, **424**, 461

rhomboid proteins, Mitochondrial membrane remodelling regulated by a conserved rhomboid protease, *Letter to Nature*, McQuibban, G A, Saurya, S, Freeman, M, **423**, 537

Rhynie chert, Palaeontology: Preserved organs of Devonian harvestmen, *Brief communication*, Dunlop, J A, Anderson, L I, Kerp, H, Hass, H, **425**, 916

ribavirin, Critics slam treatment for SARS as ineffective and perhaps dangerous, *News*, Cyranoski, D, **423**, 4

ribonuclease P, Crystal structure of the specificity domain of ribonuclease P, *Letter to Nature*, Krasilnikov, A S, Yang, X, Pan, T, Mondragon, A, **421**, 760

ribosomes, Release of eIF6 (p27BBP) from the 60S subunit allows 80S ribosome assembly, *Letter to Nature*, Ceci, M, Gaviraghi, C, Gorrini, C, Sala, L A, Offenhauser, N, Marchisio, P C, Biffo, S, **426**, 579

riboswitches, Gene regulation: RNA switches, *News and views*, Pilcher, H R, **423**, 702
Switched on to RNA, *News feature*, Knight, J, **425**, 232

rice, An active DNA transposon family in rice, *Letter to Nature*, Jiang, N, Bao, Z, Zhang, X, Hirochika, H, Eddy, S R, McCouch, S R, Wessler, S R, **421**, 163
The plant MITE *mPing* is mobilized in anther culture, *Letter to Nature*, Kikuchi, K, Terauchi, K, Wada, M, Hirano, H-Y, **421**, 167
Control of tillering in rice, *Letter to Nature*, Li, X, Qian, Q, Fu, Z, Wang, Y, Xiong, G, Zeng, D, Wang, X, Liu, X, Teng, S, Hiroshi, F, Yuan, M, Luo, D, Han, B, Li, J, **422**, 618
Adaptation of photoperiodic control pathways produces short-day flowering in rice, *Letter to Nature*, Hayama, R, Yokoi, S, Tamaki, S, Yano, M, Shimamoto, K, **422**, 719
Rice institute need strong support, *Opinion*, **423**, 1
RNA interference: Cereal adultery, *News and views*, Surridge, C, **423**, 390

rice, genome, Mobilization of a transposon in the rice genome, *Letter to Nature*, Nakazaki, T, Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T, **421**, 170
A recipe revolution, *News feature*, Cyranoski, D, **422**, 796

Riemann, Bernhard, Prime Obsession: Bernhard Riemann and the Greatest Unsolved Problem in Mathematics, Derbyshire, J, *Book review by* Gowers, W T, **425**, 562

right-side preference, Adult persistence of head-turning asymmetry, *Brief communication*, Güntürkün, O, **421**, 711
Addendum: Adult persistence of head-turning asymmetry, *Brief communication*, Gunturkun, O, **422**, 834

ringed turtle-doves, Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363

riot control, Critics slam US over plans to use riot-control chemicals in the Gulf, *News*, Knight, J, **422**, 363

risk, Risk and Reason: Safety, Law, and the Environment, Sunstein, CR, *Book review by* Pierrehumbert, R T, **422**, 263

risk assessment, Toxicology rethinks its central belief, *Commentary*, Calabrese, E J, Baldwin, L A, **421**, 691
Bomb dosimetry unlikely to change risk estimates, *Correspondence*, Mossman, K L, **425**, 237
The public has its own view of what is a risk, *Correspondence*, Schuler, E, **425**, 343

rivers, Self-organization of dissolved organic matter to micelle-like microparticles in river water, *Letter to Nature*, Kerner, M, Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A, **422**, 150
Delta blues, *News feature*, Clarke, T, **422**, 254
India pledges deluge of funds to water plan, *News*, Jayaraman, K S, **422**, 790
Ecologists seek to turn tide on Colorado River, *News*, Dalton, R, **423**, 793
No upward trends in the occurrence of extreme floods in central Europe, *Letter to Nature*, Mudelsee, M, Borngen, M, Teztlaff, G, Grunewald, U, **425**, 166
Hydrology: White Nile past, *News and views*, Clarke, T, **426**, 136

RNA, Functional genomics: RNA sets the standard, *News and views*, Tuschi, T, **421**, 220
The key to signalling, *Concepts*, Kushiro, T, Nambara, E, McCourt, P, **422**, 122
Switched on to RNA, *News feature*, Knight, J, **425**, 232
RNA molecules stimulate prion protein conversion, *Letter to Nature*, Deleault, N R, Lucassen, R W, Supattapone, S, **425**, 717

RNA, antisense, Role for antisense RNA in regulating circadian clock function in *Neurospora crassa*, *Letter to Nature*, Kramer, C, Loros, J L, Dunlap, J C, Crosthwaite, S K, **421**, 948

RNA, short interfering, Corrigendum: Short interfering RNA confers intracellular antiviral immunity in human cells, *Letter to Nature*, Gitlin, L, Karelsky, S, Andino, R, **423**, 197

RNA interference, Systematic functional analysis of the *Caenorhabditis elegans* genome using RNAi, *Article*, Kamath, R S, Fraser, A G, Dong, Y, Poulin, G, Durbin, R, Gotta, M, Kanapin, A, Le Bot, N, Moreno, S, Sohrmann, M, Welchman, D P, Zipperien, P, Ahringer, J, **421**, 231
Genome-wide RNAi analysis of *Caenorhabditis elegans* fat regulatory genes, *Letter to Nature*, Ashrafi, K, Chang, F Y, Watts, J L, Fraser, A G, Kamath, R S, Ahringer, J, Ruvkun, G, **421**, 268
RNA interference: Cereal adultery, *News and views*, Surridge, C, **423**, 390
RNA interference: Producing decaffeinated coffee plants, *Brief communication*, Ogita, S, Uefuji, H, Yamaguchi, Y, Koizumi, N, Sano, H, **423**, 823
RNA to the rescue?, *News feature*, Check, E, **425**, 10
Molecular biology: Spreading like wildfire, *News and views*, Heemels, M-T, **425**, 253
A micrococcal nuclease homologue in RNAi effector complexes, *Letter to Nature*, Caudy, A M, Ketting, R F, Hammond, S M, Denli, A M, Bathoorn, A M P, Tops, B J B, Silva, J M, Myers, M M, Hannon, G J, Plasterk, R H A, **425**, 411
Transposon silencing in the *Caenorhabditis elegans* germ line by natural RNAi, *Letter to Nature*, Sijen, T, Plasterk, R H A, **426**, 310
Structure and nucleic-acid binding of the *Drosphila* Argonaute 2 PAZ domain, *Letter to Nature*, Lingel, A, Simon, B, Izaurralde, E, attler, M, **426**, 465
Structure and conserved RNA binding of the PAZ domain, *Letter to Nature*, Yan, K S, Yan, S, Farooq, A, Han, A, Zeng, L, Zhou, M-M, **426**, 469
Recognition of small interfering RNA by a viral suppressor of RNA silencing, *Letter to Nature*, Ye, K, Malinina, L, Patel, D J, **426**, 874

RNA polymerase, Direct activation of RNA polymerase III transcription by c-Myc, *Letter to Nature*, Gomez-Roman, N, Grandori, C, Eisenman, R N, White, R J, **421**, 290
Backtracking by single RNA polymerase molecules observed at near-base-pair resolution, *Letter to Nature*, Shaevitz, J W, Abbondanzieri, E A, Landick, R, Block, S M, **426**, 684

RNA repair, A fix for RNA, *News and views*, Begley, T J, Samson, L D, **421**, 795
Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA, *Letter to Nature*, Aas, P A, Otterlei, M, Falnes, P O, Vågbø, C B, Skorpen, F, Akbari, M, Sundheim, O, Bjørås, M, Slupphaug, G, Seeberg, E, Krokan, H E, **421**, 859

RNA silencing, *See* RNA interference

RNA synthesis, Backtracking by single RNA polymerase molecules observed at near-base-pair resolution, *Letter to Nature*, Shaevitz, J W, Abbondanzieri, E A, Landick, R, Block, S M, **426**, 684

RNA-binding proteins, Feedback regulation of MAPK signalling by an RNA-binding protein, *Letter to Nature*, Sugiura, R, Kita, A, Shimizu, Y, Shuntoh, H, Sio, S O, Kuno, T, **424**, 961

RNA-induced silencing complex, A micrococcal nuclease homologue in RNAi effector complexes, *Letter to Nature*, Caudy, A M, Ketting, R F, Hammond, S M, Denli, A M, Bathoorn, A M P, Tops, B J B, Silva, J M, Myers, M M, Hannon, G J, Plasterk, R H A, **425**, 411

RNase III, The nuclear RNase III Drosha initiates microRNA processing, *Letter to Nature*, Lee, Y, Ahn, C, Han, J, Choi, H, Kim, J, Yim, J, Lee, J, Provost, P, Radmark, O, Kim, S, Kim, V N, **425**, 415

Rnc1, Feedback regulation of MAPK signalling by an RNA-binding protein, *Letter to Nature*, Sugiura, R, Kita, A, Shimizu, Y, Shuntoh, H, Sio, S O, Kuno, T, **424**, 961

road pricing, London gears up for road congestion charge, *News*, Adam, D, **421**, 679

robots, Robots in the deep, *News feature*, Clarke, T, **421**, 468
Environmentally mediated synergy between perception and behaviour in mobile robots, *Letter to Nature*, Verschure, P F M J, Voegtlin, T, Douglas, R J, **425**, 620

robust systems, Tumour tactics, *Concepts*, Kitano, H, **426**, 125

Rocket-borne Observation in the Middle Atmosphere (ROMA) project, Arctic rockets give glimpse of the atmosphere's top layers, *News*, Schiermeier, Q, **424**, 243

rods, Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice, *Letter to Nature*, Hattar, S, Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W, **424**, 76
Role of visual pigment properties in rod and cone phototransduction, *Letter to Nature*, Kefalov, V, Fu, Y, Marsh-Armstrong, N, Yau, K-W, **425**, 526

Root, Terry L, Following the thread — Terry L Root, *Lifelines*, **426**, 20

rootworm, Agency 'ignoring its advisors' over Bt maize, *News*, Knight, J, **422**, 5

Rosetta mission, Comet mission hangs in the balance, *News*, Adam, D, Butler, D, **421**, 102
Safety doubts force rethink of embattled comet mission, *News*, Butler, D, **421**, 198
Fair play for trial balloons, *Editorial*, **421**, 299
Failed mission launch prompts ESA to reconsider comet target, *News*, Butler, D, **421**, 301
Spiralling costs dog comet mission, *News*, Butler, D, **423**, 372

rotaxanes, Unidirectional rotation in a mechanically interlocked molecular rotor, *Letter to Nature*, Leigh, D A, Wong, J K Y, Dehez, F, Zerbetto, F, **424**, 174

Rothschild, Lyn, Pipe dreams — Lyn Rothschild, *Lifelines*, **422**, 567

rotifera, Rapid evolution drives ecological dynamics in a predator–prey system, *Letter to Nature*, Yoshida, T, Jones, L E, Ellner, S P, Fussmann, G F, Hairston Jr, N G, **424**, 303

Roughgarden, Joan, A plea for diversity, *News feature*, Gewin, V, **422**, 368

***RPM1* gene**, Fitness costs of R-gene-mediated resistance in *Arabidopsis thaliana*, *Letter to Nature*, Tian, D, Traw, M B, Chen, J Q, Kretman, M, Bergelson, J, **423**, 74

Rubin, Vera, The observer — Vera Rubin, *Lifelines*, **425**, 773

Rudolf the red-nosed reindeer, Nasal bioluminescence in reindeer, *Rangifer tarandus rubens*, *Science in culture*, Kemp, M, **426**, 768

Runx2, Developmental regulation of the growth plate, *Insight review article*, Kronenberg, H M, **423**, 332

Russell, Sara, Down to Earth — Sara Russell, *Lifelines*, **422**, 23

Russia, US to replace Russia's last plutonium plants, *News in brief*, **423**, 578
Russian claims first in magnetic imaging, *News*, MacWilliams, B, **426**, 375

Russia, bioweapons, From red peril to red tape, *Opinion*, **423**, 669
Still out in the cold, *News feature*, Brumfiel, G, **423**, 678

Russia, education, Obrazovaniye, Kotoroye My Mozhem Poteryat (The Education That We May Lose), Sadovnichii, V A, *Book review by* Soyfer, V N, **421**, 693

Russia, industrial espionage, Russian scientists face long fight for justice, *News*, MacWilliams, B, **424**, 477

Russia, nuclear weapons, US bombshell hits revamp of Russian weapons centres, *News*, Brumfiel, G, **424**, 479

Russia, research funding, Russian researchers hail move to bring salaries up to scratch, *News in brief*, **421**, 466

Russia, Vostok research station, Russia pulls out of Antarctic station, *News*, MacWilliams, B, **422**, 104

ruthenium, Electroluminescent device with reversible switching between red and green emission, *Letter to Nature*, Welter, S, Brunner, K, Hofstraat, J W, De Cola, L, **421**, 54

Rydberg atoms, Atomic physics: Squishy ball lightning, *News and views*, Ball, P, **425**, 253

S-motility, Evolution of novel cooperative swarming in the bacterium *Myxococcus xanthus*, *Letter to Nature*, Velicer, G J, Yu, Y-t N, **425**, 75

s-process, Astronomy: Elements of surprise, *News and views*, Cowan, J, **423**, 29

SABONET, The price of collecting life, *Commentary*, Smith, G F, Steenkamp, Y, Klopper, R R, Siebert, S J, Arnold, T H, **422**, 375

Saccharomyces bayanus, Sequencing and comparison of yeast species to identify genes and regulatory elements, *Article*, Kellis, M, Pattrson, N, Endrizzi, M, Birren, B, Lander, E S, **423**, 241

Saccharomyces cerevisiae, Srb10/Cdk8 regulates yeast filamentous growth by phosphorylating the transcription factor Ste12, *Letter to Nature*, Nelson, C, Goto, S, Lund, K, Hung, W, Sadowski, I, **421**, 187
Yeast genome duplication was followed by asynchronous differentiation of duplicated genes, *Letter to Nature*, Langkjaer, R B, Cliften, P F, Johnston, M, Piškur, J, **421**, 848
Noise in eukaryotic gene expression, *Letter to Nature*, Blake, W J, Kaern, M, Cantor, C R, Collins, J J, **422**, 633
Adaptation of core mechanisms to generate cell polarity, *Insight review article*, Nelson, W J, **422**, 766
Molecular physiology: Tuned for longer life, *News and views*, Turner, R, **423**, 125
Nicotinamide and *PNC1* govern lifespan extension by calorie restriction in *Saccharomyces cerevisiae*, *Letter to Nature*, Andersen, R M, Bitterman, K J, Wood, J G, Medvedik, O, Sinclair, D A, **423**, 181
Genomics: Yeast rises again, *News and views*, Salzberg, S L, **423**, 233
Sequencing and comparison of yeast species to identify genes and regulatory elements, *Article*, Kellis, M, Pattrson, N, Endrizzi, M, Birren, B, Lander, E S, **423**, 241
DNA helicase Srs2 disrupts the Rad51 presynaptic filament, *Letter to Nature*, Krejci, L, Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P, **423**, 305
The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments, *Letter to Nature*, Veaute, X, Jeusset, J, Soustelle, C, Kowalczykowski, S C, Le Cam, E, Fabre, F, **423**, 309
Mitochondrial membrane remodelling regulated by a conserved rhomboid protease, *Letter to Nature*, McQuibban, G A, Saurya, S, Freeman, M, **423**, 537
Functional proteomic identification of DNA replication proteins by induced proteolysis *in vivo*, *Article*, Kanemaki, M, Sanchez-Diaz, A, Gambus, A, Labib, K, **423**, 720
Cks1-dependent proteasome recruitment and activation of *CDC20* transcription in budding yeast, *Letter to Nature*, Morris, M C, Kaiser, P, Rudyak, S, Baskerville, C, Watson, M H, Reed, S I, **423**, 1009
Dosage sensitivity and the evolution of gene families in yeast, *Letter to Nature*, Papp, B, Pál, C, Hurst, L D, **424**, 194
Small molecule activators of sirtuins extend *Saccharomyces cerevisiae* lifespan, *Letter to Nature*, Howitz, K T, Bitterman, K J, Cohen, H Y, Lamming, D W, Lavu, S, Wood, J G, Zipkin, R E, Chung, P, Kisielewski, A, Zhang, L-L, Scherer, B, Sinclair, D A, **425**, 191
Proteomics: Where's Waldo in yeast?, *News and views*, Wohlschlegel, J A, Yates, J R, **425**, 671
Global analysis of protein localization in budding yeast, *Article*, Huh, W-K, Falvo, J V, Gerke, L C, Carroll, A S, Howson, R W, Weissman, J S, O'Shea, E K, **425**, 686
Global analysis of protein expression in yeast, *Letter to Nature*, Ghaemmaghami, S, Huh, W-K, Bower, K, Howson, R W, Belle, A, Dephoure, N, O'Shea, E K, Weissman, J S, **425**, 737

  - Targets of the cyclin-dependent kinase Cdk1, *Letter to Nature*, Ubersax, J A, Woodbury, E L, Quang, P N, Paraz, M, Blethrow, J D, Shah, K, Shokat, K M, Morgan, D O, **425**, 859
  - ATP-dependent reduction of cysteine-sulphinic acid by *S. cerevisiae* sulphiredoxin, *Letter to Nature*, Biteau, B, Labarre, J, Toledano, M B, **425**, 980
- ***Saccharomyces mikatae***, Sequencing and comparison of yeast species to identify genes and regulatory elements, *Article*, Kellis, M, Pattrson, N, Endrizzi, M, Birren, B, Lander, E S, **423**, 241
- ***Saccharomyces sensu strico***, Engineering evolution to study speciation in yeasts, *Letter to Nature*, Delneri, D, Colson, I, Grammenoudi, S, Roberts, I N, Louis, E J, Oliver, S G, **422**, 68
- **Sagittarius A* black hole**, Black holes: Sparks of interest, *News and views*, Narayan, R, **425**, 908
  - Near-infrared flares from accreting gas around the supermassive black hole at the Galactic Centre, *Letter to Nature*, Genzel, R, Schödel, R, Ott, T, Eckart, A, Alexander, T, Lacombe, F, Rouan, D, Aschenbach, B, **425**, 934
- ***Saiga tatarica tatarica***, Conservation: Reproductive collapse in saiga antelope harems, *Brief communication*, Milner-Gulland, E J, Bukreeva, O M, Coulson, T, Lushchekina, A A, Kholodova, M V, Bekenov, A B, Grachev, I A, **422**, 135
- **Sainsbury, David**, Science minister's gift triggers political storm, *News in brief*, **422**, 552
- **salamanders**, Earliest known crown-group salamanders, *Letter to Nature*, Gao, K-Q, Shubin, N H, **422**, 424
- **salaries**, Chemists' salaries turn south, *News*, Hoag, H, **422**, 650
- **salinity**, Deep roots in Messinian salinity crisis, *Letter to Nature*, Duggen, S, Hoernie, K, van den Bogaard, P, Rupke, L, Phipps Morgan, J, **422**, 602
  - Atlantic cod meet icy death, *News*, Hoag, H, **422**, 792
  - Oceanography: Fresh input, *News and views*, Lincoln, T, **423**, 820
  - A change in the freshwater balance of the Atlantic Ocean over the past four decades, *Letter to Nature*, Curry, R, Dickson, B, Yashayaev, I, **426**, 826
- **salmon**, Transgenic salmon still out in the cold in United States, *News*, Hoag, H, **421**, 304
  - Objective assessment of transgenic salmon, *Correspondence*, Gray, G, **421**, 889
  - Delivery of pollutants by spawning salmon, *Brief communication*, Krummel, E M, Macdonald, R W, Kimpe, L E, Gregory-Eaves, I, Demers, M J, Smol, J P, Finney, B, Blais, J M, **425**, 255
  - Fish farms' threat to salmon stocks exposed, *News*, Schiermeier, Q, **425**, 753
- ***Salmonella* spp.**
  - Microbiology: Gut defence, *News and views*, Ganz, T, **422**, 478
  - Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin, *Letter to Nature*, Salzman, N H, Ghosh, D, Huttner, K M, Paterson, Y, Bevins, C L, **422**, 522
- ***Salmonella typhimurium***, Microbiology: Destructive approach, *News and views*, Tromans, A, **426**, 23
- **salt**, Physiology: Salty secrets of the Sumatran stingray, *News and views*, Pilcher, H R, **424**, 630
- **salts**, Physical chemistry: Salts leave fingerprints in acid, *News and views*, Ball, P, **422**, 577
- **samarium fulleride**, Temperature-induced valence transition and associated lattice collapse in samarium fulleride, *Letter to Nature*, Arvanitidis, J, Papagelis, K, Margadonna, S, Prassides, K, Fitch, A N, **425**, 599
- **San Andreas fault**, Migration of seismic scatterers associated with the 1993 Parkfield aseismic transient event, *Letter to Nature*, Niu, F, Silver, P G, Nadeau, R M, McEvilly, T V, **426**, 544
- **sanctions**, Detrimental effects of sanctions on human altruism, *Article*, Fehr, E, Rockenbach, B, **422**, 137
- **sand**, Granular materials: Shaken sand — a granular fluid?, *News and views*, Umbanhowar, P, **424**, 886
  - Think outside the sandbox, *News feature*, Buchanan, M, **425**, 556
- **sand dunes**, Solitary wave behaviour of sand dunes, *Brief communication*, Schwammle, V, Herrmann, H J, **426**, 619
- **Sandström, J**, The current climate, *Concepts*, Rahmstorf, S, **421**, 699
- **sanitation**, How to slake a planet's thirst, *Opinion*, **422**, 242
  - The world's forgotten crisis, *News feature*, Aldhous, P, **422**, 251
- **SAP protein**, SAP is required for generating long-term humoral immunity, *Letter to Nature*, Crotty, S, Kersh, E N, Cannons, J, Schwartzberg, P L, Ahmed, R, **421**, 282
- **SARS** *see* severe acute respiratory syndrome
- **SARS-associated coronavirus**, Aetiology: Koch's postulates fulfilled for SARS virus, *Brief communication*, Fouchier, R A M, Kuiken, T, Schutten, M, van Amerongen, G, van Doornum, G J J, van den Hoogen, B G, Peiris, M, Lim, W, Stohr, K, Osterhaus, A D M E, **423**, 240
- **satellites**, Atmospheric science: Lightning satellite survey, *News and views*, Clarke, T, **421**, 228
  - Cosmologists look forward to clearer picture, *News*, Reichhardt, T, **421**, 777
  - Islands in the pink, *News in brief*, **422**, 8
  - Europe told to unite on spy satellites, *News*, Schiermeier, Q, **422**, 361
  - Mind your heads!, *News in brief*, **422**, 462
  - NASA feels the heat as glacier pictures cause unrest in Peru, *News in brief*, **422**, 794
  - Planetary science: Jupiter's moonopoly, *News and views*, Hamilton, D P, **423**, 235
  - An abundant population of small irregular satellites around Jupiter, *Letter to Nature*, Sheppard, S S, Jewitt, D C, **423**, 261
  - First satellite for sale, one careful owner, *News in brief*, **423**, 677
  - Photos stop as Landsat 7 defies engineers, *News*, Reichhardt, T, **423**, 907
  - Repositioned Sun satellite beams in weather reports, *News in brief*, **423**, 910
  - Japan joins Europe's bid to get Bepi Colombo to Mercury, *News in brief*, **424**, 8
  - Eyes in the sky to look out for heritage sites, *News in brief*, **424**, 9
  - Laser breakdown takes satellite's eye off the ice, *News in brief*, **424**, 244
  - Satellites aim to shake up quake predictions, *News*, Reichhardt, T, **424**, 478
  - Atmospheric science: African dust in Florida clouds, *News and views*, Toon, O B, **424**, 623
  - Intense equatorial flux spots on the surface of the Earth's core, *Letter to Nature*, Jackson, A, **424**, 760
  - India launches plan for mission to map the moon, *News*, Jayaraman, K S, **424**, 985
  - High-energy astronomy: Flashes from planet smashes, *News and views*, Ball, P, **424**, 1011
  - Oops! Sorry we've dropped your satellite, *News in brief*, **425**, 230
  - Nigeria joins the space age with first satellite, *News in brief*, **425**, 442
  - Laser satellite blows wind of change for weather studies, *News in brief*, **425**, 757
  - Satellite loss throws Japan's space programme into disarray, *News*, Cyranoski, D, **426**, 3
  - Satellite mission star buy in online auction, *News in brief*, **426**, 220
  - US on sidelines as China prepares for satellite launch, *News*, Reichhardt, T, **426**, 375
- **Saturn**, Outer planets: Origins of atmospheric zonal winds, *Brief communication*, Yano, J-I, Talagrand, O, Drossart, P, **421**, 36
  - A strong decrease in Saturn's equatorial jet at cloud level, *Letter to Nature*, Sánchez-Lavega, A, Pérez-Hoyos, S, Rojas, J F, Hueso, R, French, R G, **423**, 623
- **Saturn, moons**, Planetary science: Moons on the wander, *News and views*, Clarke, T, **421**, 907
  - Chaos-assisted capture of irregular moons, *Letter to Nature*, Astakhov, S A, Burbanks, A D, Wiggins, S, Farrelly, D, **423**, 264
- **Saunders, Will**, Stargazer sees red, *News in brief*, **422**, 366
- **scaffolding proteins**, Regulated portals of entry into the cell, *Review article*, Conner, S D, Schmid, S L, **422**, 37
- **scallops**, Visualization of an unstable coiled coil from the scallop myosin rod, *Letter to Nature*, Li, Y, Brown, J H, Reshetnikova, L, Blazsek, A, Farkas, L, Nyltray, L, Cohen, C, **424**, 341
- **scanning near-field optical microscopy**, Microscopy: High-speed movies in miniature, *News and views*, Ball, P, **424**, 265
- **scanning tunnelling microscopy**, Chemistry: Tips for moving single molecules, *News and views*, Jacobs, D C, **423**, 488
  - Selectivity in vibrationally mediated single-molecule chemistry, *Letter to Nature*, Pascual, J I, Lorente, N, Song, Z, Conrad, H, Rust, H-P, **423**, 525
- **scarab beetles**, Heat reward for insect pollinators, *Brief communication*, Seymour, R S, White, C R, Gibernau, M, **426**, 243
- ***Scarabaeus zambesianus***, Insect orientation to polarized moonlight, *Brief communication*, Dacke, M, Nilsson, D-E, Scholtz, C H, Byrne, M, Warrant, E J, **424**, 33
- **scent**, Behavioural ecology: Fresh on the tang of citrus, *News and views*, Whitfield, J, **423**, 395
- **Schell, Jeff**, Obituary: Jeff Schell (1935-2003), *News and views*, Van Montagu, M, **423**, 934
- **Schilizzi, Richard**, Radio telescope plan gets inaugural chief, *News in brief*, **421**, 103
- ***Schistosoma japonicum***, Worm genes harnessed to tackle snail fever, *News*, Cyranoski, D, **425**, 227
- **schistosomiasis**, Worm genes harnessed to tackle snail fever, *News*, Cyranoski, D, **425**, 227
- **schizophrenia**, Obituary: Patricia S. Goldman-Rakic (1937–2003), *News and views*, Nestler, E J, **425**, 471
- ***Schizosaccharomyces pombe***, Corrigendum: The genome sequence of *Schizosaccharomyces pombe*, *Letter to Nature*, Wood, V, Gwilliam, R, Rajandream, M-A *et al.* (See footnote 4 on p. 79 for full author list), **421**, 94
  - Adaptation of core mechanisms to generate cell polarity, *Insight review article*, Nelson, W J, **422**, 766
  - Fission yeast mod5p regulates polarized growth through anchoring of tea1p at cell tips, *Letter to Nature*, Snaith, H A, Sawin, K E, **423**, 647
  - DNA self-recognition in the structure of Pot1 bound to telomeric single-stranded DNA, *Letter to Nature*, Lei, M, Podeli, E R, Baumann, P, Cech, T R, **426**, 198
- **Schön, Jan Hendrik**, More papers fall foul of Schön injury, *News in brief*, **421**, 6
  - Physicists fail to find saving grace for falsified research, *News*, Ball, P, **421**, 878
- **Schrodinger's cat**, Quantum physics: How to make a Schrodinger's cat, *News and views*, Ball, P, **425**, 573
- **Schweitzer, Mary**, Country life — M. Schweitzer, *Lifelines*, **421**, 793
- **Schwinger, Julian**, Britannica: source of a passion for physics, *Correspondence*, Wong, M-L, **423**, 801
  - Britannica: which edition inspired Schwinger?, *Correspondence*, Wolff, A, **423**, 801
- **science in culture**, A mechanical mind, *Science in culture*, Kemp, M, **421**, 214
  - Visual zoology, *Science in Culture*, Abbott, A, **421**, 580
  - Leonardo lifts off, *Science in culture*, Kemp, M, **421**, 792
  - London's gherkin, *Science in culture*, Hopkin, M, **422**, 22
  - Time will tell, *Science in culture*, Kemp, M, **422**, 380
  - Nets and neuroses, *Science in culture*, Kemp, M, **422**, 666
  - Behind the wall, *Science in culture*, Abbott, A, **423**, 226
  - Recovering from cultural devastation, *Opinion*, **423**, 465
  - Deacon's nucleic acid, *Science in culture*, Kemp, M, **423**, 483
  - The arsenic green, *Science in culture*, Meharg, A, **423**, 688
  - Seeing sense, *Science in culture*, Kemp, M, **424**, 18
  - Optical alchemy, *Science in culture*, Martin, C, **424**, 133
  - Pixels and piety, *Science in culture*, Kemp, M, **425**, 128
  - The art of rigorous chance, *Science in culture*, Kemp, M, **425**, 563
  - Painting by numbers, *Science in culture*, Ball, P, **425**, 904
  - Luminet's illuminations, *Science in culture*, Kemp, M, **426**, 232
- **science fiction**, Cinema: Return of the mutants, *Book review by*, Rutherford, A, **423**, 119
  - Darwin's Children: Evolution Has Changed the Face of the World, Bear, G, *Book review by* Goldman, M, **424**, 726
- **Science Foundation Ireland**, Irish scientists smiling at research cash boost, *News in brief*, **426**, 376
- **science publishing**, Nature in 2003, *Editorial*, **421**, 1
  - Free-access group secures deal to publish journals, *News in brief*, **421**, 6
  - More papers fall foul of Schön injury, *News in brief*, **421**, 6
  - Scientific research and the human condition, *Correspondence*, Velazquez, J L P, **421**, 13
  - Funding should recognize the value of peer review, *Correspondence*, Dominiczak, M H, **421**, 111
  - Strict guidelines make it clear who's responsible, *Correspondence*, Sarachik, M P, **421**, 111
  - US officials urge biologists to vet publications for bioterror risk, *News*, Check, E, **421**, 197
  - Prospect of human cloning poses dilemma for journals, *News*, Pearson, H, **421**, 199
  - Journals: how to decide what's worth publishing, *Correspondence*, Jefferson, T, Shashok, K, **421**, 209
  - Journals: redundant publications are bad news, *Correspondence*, Mojon-Azzi, S M, Jiang, X, Wagner, U, Mojon, D S, **421**, 209
  - Journals: impact factors are too highly valued, *Correspondence*, Davies, J, **421**, 210
  - Reviewing should be shown in publication list, *Correspondence*, Clausen, T, Nielsen, O B, **421**, 689
  - How to publish in *Nature*, *Editorial*, **421**, 769
  - Nobel laureate slams misconduct smear, *News*, Schiermeier, Q, **421**, 773
  - Journals tighten up on biosecurity, *News*, Check, E, **421**, 774
  - Physicists fail to find saving grace for falsified research, *News*, Ball, P, **421**, 878
  - Retractions' realities, *Editorial*, **422**, 1
  - The politics of publication, *Commentary*, Lawrence, P A, **422**, 259
  - Swift publication would reward good reviewers, *Correspondence*, Koonin, E V, **422**, 374
  - Null and void, *News feature*, Knight, J, **422**, 554
  - Peer review and the rewards of open access, *Correspondence*, Newmark, P, **422**, 661
  - Stench of fraud in German odour lab as paper cries foul, *News in brief*, **422**, 794
  - Unrestricted free access works and must continue, *Correspondence*, Salzberg, S, Birney, E, Eddy, S, White, O, **422**, 801
  - Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803
  - Improving science through online commentary, *Correspondence*, Eagleman, D M, Holcombe, A O, **423**, 15
  - Designer scientific literature, *Correspondence*, Kutschera, U, **423**, 116
  - Peer review: recognition via year-end statements, *Correspondence*, van Loon, A J T, **423**, 116
  - Copied citations give impact factors a boost, *News*, Clarke, T, **423**, 373
  - Clear as mud, *News feature*, Knight, J, **423**, 376
  - Challenging the tyranny of impact factors, *Correspondence*, Colquhoun, D, **423**, 479
  - Editors are meant to be judges, not postmen, *Correspondence*, Michell, B, **423**, 479
  - Disruption to science in developing countries, *Correspondence*, Barcinski, M A, **423**, 480
  - Impact factors aren't top journals' sole attraction, *Correspondence*, Törnqvist, T E, **423**, 480
  - The system rewards a dishonest approach, *Correspondence*, Brookfield, J, **423**, 480
  - Impact factors: target the funding bodies, *Correspondence*, Insall, R, **423**, 585
  - Journals wrestle with definition of 'competing' interest, *News*, Knight, J, **423**, 908
  - Does the proof stack up?, *News feature*, Szpiro, G, **424**, 12
  - Impact factors: a tool of the sterile audit culture, *Correspondence*, Tuck, A, **424**, 14
  - Multitude of reference styles delays publication, *Correspondence*, Leslie Jr, D M, Hamilton, M J, **424**, 127
  - Writing: the clear choice, *Correspondence*, McCormick, S, **424**, 128
  - Writing: LEX and flexibility, *Correspondence*, Brent, A, **424**, 128
  - Writing: visuals are another story, *Correspondence*, Dominiczak, M H, McFall, K, **424**, 128
  - Preliminary inquiry clears brain scientist of fraud allegation, *News*, Abbott, A, **424**, 243
  - Authorities should note sponsorship-results link, *Correspondence*, Criscione, L, **424**, 369
  - Impact factors: letting everyone have their say, *Correspondence*, Cobb, M, **424**, 487
  - Impact factors reward and promote excellence, *Correspondence*, Lomnicki, A, **424**, 487
  - Journal editor quits hot seat over global-warming study, *News in brief*, **424**, 606
  - Open-access trial next step in biology journal's life cycle, *News in brief*, **424**, 716

Impact factors: just part of a research treadmill, *Correspondence*, de Meis, L, do Carmo, M S, de Meis, C, **424**, 723
Lack of concern deepens the oceans' problems, *Correspondence*, Kochin, B F, Levin, P S, **424**, 723
Ant book deepens divide over web publishing, *News*, Dalton, R, **424**, 985
Open-source answer to bibliography problem, *Correspondence*, Wendl, M C, Dooling, D J, **424**, 995
Retraction ends furore over cancer vaccine, *News*, Abbott, A, **425**, 4
Computer's ability to verify proof is an illusion, *Correspondence*, Partridge, D, **425**, 121
Open-access row leads paper to shed authors, *News*, Butler, D, **425**, 334
Wellcome to fund publication in open-access journals, *News*, Butler, D, **425**, 440
Search comes to an end as *Cell* fills editor's chair, *News in brief*, **425**, 552
Who will pay for open access?, *News feature*, Butler, D, **425**, 554
'Open access' will not be open to everyone, *Correspondence*, Ewing, J, **425**, 559
Coping with peer rejection, *Opinion*, **425**, 645
How do impact factors relate to the real world?, *Correspondence*, Skorka, P, **425**, 661
Defamation, online, *Opinion*, **426**, 1
Critical comments threaten to open libel floodgate for physics archive, *News*, Giles, J, **426**, 7
Preprint server seeks way to halt plagiarists, *News*, Giles, J, **426**, 7
Open access: other ways, *Correspondence*, Suber, P, **426**, 15
Open access will deter illegal file-sharing, *Correspondence*, Dufva, M, **426**, 15
How genius can smooth the road to publication, *Correspondence*, Brummer, J, **426**, 119
Reply: How genius can smooth the road to publication, *Correspondence*, Maddox, J, **426**, 119
Medical journal under attack as dissenters seize AIDS platform, *News*, Butler, D, **426**, 215
Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217
Cornell axes Elsevier journals as prices rise, *News*, Knight, J, **426**, 217
It's a scoop!, *News feature*, Pearson, H, **426**, 222
Open access: the JCI has already shown its works, *Correspondence*, Varki, A, **426**, 383
A new home for molecular biologists, *Opinion*, **426**, 589
Mystery remains as journal withdraws paper, *News*, Whitfield, John, **426**, 594
QUAD system offers fair shares to all authors, *Correspondence*, Verhagen, J V, Wallace, K J, Collins, S C, Scott, T R, **426**, 602
Elsevier waves goodbye to BioMedNet web portal, *News*, Giles, J, **426**, 744
Britain launches inquiry into the cost of science journals, *News in brief*, **426**, 747
There's more to science (and life) than scoops, *Correspondence*, Blystone, S D, **426**, 759
science and religion, Fabulous Science: Fact and Fiction in the History of Scientific Discovery, Waller, J, *Book review by* Galloway, J, **422**, 19
Science, Technology and Engineering mentorship Initiative for Iraq (STEM II), State department woos weapons researchers in bid to rebuild Iraq, *News*, Brumfiel, G, **426**, 371
scientific advice, All the President's yes-men?, *Editorial*, **421**, 459
Knowledge and Diplomacy: Science Advice in the United Nations System, Committee for Survey and Analysis of Science Advice on Sustainable Development to International Organizations, Development, Security, and Cooperation, National Research Council, *Book review by* Masood, E, **422**, 471
scientific conferences, India prime minister pledges to revamp science, *News*, Jayaraman, K S, **421**, 101
Meeting aims to find brain's benchmarks for beauty, *News*, Knight, J, **421**, 305
Travel grants available for genetics congress, *Correspondence*, Griffiths, A J F, **421**, 313
European scientists plan jamboree in 2004, *News in brief*, **421**, 567
How to slake a planet's thirst, *Opinion*, **422**, 242
Biodefence plans earn lukewarm response from US academics, *News*, Check, E, **422**, 245
The world's forgotten crisis, *News feature*, Aldhous, P, **422**, 251
Conflicts undermine global forum's push for safe water, *News*, Cyranoski, D, **422**, 364
Cancer conference scrapped as outbreak intensifies, *News*, Clarke, T, **422**, 547
A meeting for Europe's scientists and publics, *Opinion*, **423**, 571
String theorists bypass NSF en route to Iran seminar, *News*, Brumfiel, G, **424**, 3
Virtual solution to carbon cost of conferences, *Correspondence*, Reay, D S, **424**, 251
US observation initiative calls for fresh view of Earth, *News*, Reichhardt, T, **424**, 357
Chemists seek image overhaul, *News*, Pearson, H, **425**, 227
scientific cooperation, Time to unite Islam and science, *Opinion*, **422**, 99
Academics wrestle with issue of Islam's flagging science base, *News*, Butler, D, **422**, 101
Building bridges through cooperation in science, *Correspondence*, Hassan, M H A, **422**, 559
Building bridges, *Opinion*, **423**, 903
European deal aims to attract Arab scientists, *News*, Nosengo, N, **423**, 906
Who'd want to work in a team?, *Opinion*, **424**, 1
German foundation calls for African research partners, *News in brief*, **424**, 9
Across the great divide, *News feature*, Giles, J, **425**, 444
scientific discovery, Fabulous Science: Fact and Fiction in the History of Scientific Discovery, Waller, J, *Book review by* Galloway, J, **422**, 19
scientific freedom, Is a scientific boycott ever justified?, *Commentary*, Blakemore, C, Dawkins, R, Noble, D, Yudkin, M, **421**, 314
Scientific freedom: some face a lonely dilemma, *Correspondence*, Macy, R, **421**, 785
scientific journals, Nature in 2003, *Editorial*, **421**, 1
Free-access group secures deal to publish journals, *News in brief*, **421**, 6
More papers fall foul of Schön injury, *News in brief*, **421**, 6
Scientific research and the human condition, *Correspondence*, Velazquez, J L P, **421**, 13
Funding should recognize the value of peer review, *Correspondence*, Dominiczak, M H, **421**, 111
Prospect of human cloning poses dilemma for journals, *News*, Pearson, H, **421**, 199
Journals: how to decide what's worth publishing, *Correspondence*, Jefferson, T, Shashok, K, **421**, 209
Journals: redundant publications are bad news, *Correspondence*, Mojon-Azzi, S M, Jiang, X, Wagner, U, Mojon, D S, **421**, 209
Journals: impact factors are too highly valued, *Correspondence*, Davies, J, **421**, 210
Reviewing should be shown in publication list, *Correspondence*, Clausen, T, Nielsen, O B, **421**, 689
How to publish in *Nature*, *Editorial*, **421**, 769
Journals tighten up on biosecurity, *News*, Check, E, **421**, 774
Retractions' realities, *Editorial*, **422**, 1
The politics of publication, *Commentary*, Lawrence, P A, **422**, 259
Swift publication would reward good reviewers, *Correspondence*, Koonin, E V, **422**, 374
Null and void, *News feature*, Knight, J, **422**, 554
Peer review and the rewards of open access, *Correspondence*, Newmark, P, **422**, 661
Stench of fraud in German odour lab as paper cries foul, *News in brief*, **422**, 794
Who cares about the double helix?, *Commentary*, Strasser, B J, **422**, 803
Improving science through online commentary, *Correspondence*, Eagleman, D M, Holcombe, A O, **423**, 15
Designer scientific literature, *Correspondence*, Kutschera, U, **423**, 116
Peer review: recognition via year-end statements, *Correspondence*, van Loon, A J T, **423**, 116
Copied citations give impact factors a boost, *News*, Clarke, T, **423**, 373
Clear as mud, *News feature*, Knight, J, **423**, 376
Challenging the tyranny of impact factors, *Correspondence*, Colquhoun, D, **423**, 479
Editors are meant to be judges, not postmen, *Correspondence*, Michell, B, **423**, 479
Disruption to science in developing countries, *Correspondence*, Barcinski, M A, **423**, 480
Impact factors aren't top journals' sole attraction, *Correspondence*, Törnqvist, T E, **423**, 480
The system rewards a dishonest approach, *Correspondence*, Brookfield, J, **423**, 480
Impact factors: target the funding bodies, *Correspondence*, Insall, R, **423**, 585
Journals wrestle with definition of 'competing' interest, *News*, Knight, J, **423**, 908
Does the proof stack up?, *News feature*, Szpiro, G, **424**, 12
Impact factors: a tool of the sterile audit culture, *Correspondence*, Tuck, A, **424**, 14
Multitude of reference styles delays publication, *Correspondence*, Leslie Jr, D M, Hamilton, M J, **424**, 127
Writing: the clear choice, *Correspondence*, McCormick, S, **424**, 128
Writing: LEX and flexibility, *Correspondence*, Brent, A, **424**, 128
Writing: visuals are another story, *Correspondence*, Dominiczak, M H, McFall, K, **424**, 128
Preliminary inquiry clears brain scientist of fraud allegation, *News*, Abbott, A, **424**, 243
Authorities should note sponsorship-results link, *Correspondence*, Criscione, L, **424**, 369
Impact factors: letting everyone have their say, *Correspondence*, Cobb, M, **424**, 487
Impact factors reward and promote excellence, *Correspondence*, Lomnicki, A, **424**, 487
Journal editor quits hot seat over global-warming study, *News in brief*, **424**, 606
Open-access trial next step in biology journal's life cycle, *News in brief*, **424**, 716
Impact factors: just part of a research treadmill, *Correspondence*, de Meis, L, do Carmo, M S, de Meis, C, **424**, 723
Open-source answer to bibliography problem, *Correspondence*, Wendl, M C, Dooling, D J, **424**, 995
Retraction ends furore over cancer vaccine, *News*, Abbott, A, **425**, 4
Computer's ability to verify proof is an illusion, *Correspondence*, Partridge, D, **425**, 121
Open-access row leads paper to shed authors, *News*, Butler, D, **425**, 334
Wellcome to fund publication in open-access journals, *News*, Butler, D, **425**, 440
Search comes to an end as *Cell* fills editor's chair, *News in brief*, **425**, 552
Who will pay for open access?, *News feature*, Butler, D, **425**, 554
'Open access' will not be open to everyone, *Correspondence*, Ewing, J, **425**, 559
Coping with peer rejection, *Opinion*, **425**, 645
How do impact factors relate to the real world?, *Correspondence*, Skorka, P, **425**, 661
Open access: other ways, *Correspondence*, Suber, P, **426**, 15
Open access will deter illegal file-sharing, *Correspondence*, Dufva, M, **426**, 15
How genius can smooth the road to publication, *Correspondence*, Brummer, J, **426**, 119
Reply: How genius can smooth the road to publication, *Correspondence*, Maddox, J, **426**, 119
Medical journal under attack as dissenters seize AIDS platform, *News*, Butler, D, **426**, 215
Cornell axes Elsevier journals as prices rise, *News*, Knight, J, **426**, 217
Open access: the JCI has already shown its works, *Correspondence*, Varki, A, **426**, 383
Citation rate unrelated to journals' impact factor, *Correspondence*, Waheed, A A, **426**, 495
A new home for molecular biologists, *Opinion*, **426**, 589
Mystery remains as journal withdraws paper, *News*, Whitfield, John, **426**, 594
QUAD system offers fair shares to all authors, *Correspondence*, Verhagen, J V, Wallace, K J, Collins, S C, Scott, T R, **426**, 602
Britain launches inquiry into the cost of science journals, *News in brief*, **426**, 747
There's more to science (and life) than scoops, *Correspondence*, Blystone, S D, **426**, 759
scientific journals, photocopying, Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217
scientific misconduct, More papers fall foul of Schön injury, *News in brief*, **421**, 6
Heavy fine for light-fingered archaeologist, *News in brief*, **421**, 103
More heat, less light on Lomberg, *Editorial*, **421**, 195
Report exposes errors in cancer 'breakthrough', *News in brief*, **421**, 566
Nobel laureate slams misconduct smear, *News*, Schiermeier, Q, **421**, 773
Paper retracted as co-author admits forgery, *News*, Adam, D, **421**, 775
Göttingen rapped by German funding agency, *News in brief*, **421**, 778
Physicists fail to find saving grace for falsified research, *News*, Ball, P, **421**, 878
Retractions' realities, *Editorial*, **422**, 1
Stench of fraud in German odour lab as paper cries foul, *News in brief*, **422**, 794
Mock turtles, *News feature*, Dalton, R, **423**, 219
Tribunal clears obesity researcher of fraud, *News*, Butler, D, **424**, 6
Survey reveals mixed feelings over scientific misconduct, *News*, Abbott, A, Graf, P, **424**, 117
Preliminary inquiry clears brain scientist of fraud allegation, *News*, Abbott, A, **424**, 243
Authorities should note sponsorship-results link, *Correspondence*, Criscione, L, **424**, 369
Need for a court to rule on patents and misconduct, *Correspondence*, Bihain, B E, **424**, 875
Retraction ends furore over cancer vaccine, *News*, Abbott, A, **425**, 4
Japan's fraudsters face years without grants, *News in brief*, **425**, 336
Whistles blow in vain on bad practice in German research, *News*, Abbott, A, **426**, 218
University buildings named on shaky ground, *News*, Dalton, R, **426**, 374
Plague trial verdict leaves biologists split on biodefence, *News*, Check, E, **426**, 593
Boom, or bust?, *News feature*, Check, E, **426**, 598
Secrecy damages the NIH, *Opinion*, **426**, 739
Accusations of bias prompt NIH review of ethical guidelines, *News*, Knight, J, **426**, 741
scientific societies, US societies unite in plea for boost to research budgets, *News*, Brumfiel, G, **421**, 100
Max Planck plans double blow to chemistry, *News*, Schiermeier, Q, **422**, 105
Max Planck: closures will damage German science, *Correspondence*, Wasserburg, G J, McKenzie, D P, **422**, 469
Max Planck: cuts were decided years ago, *Correspondence*, Wirsing, B, **422**, 469
Cancer body gets tough on conflicts, *News in brief*, **423**, 108
Planck makes permanent posts, *News*, Schiermeier, Q, **425**, 441
scientific writing, Clear as mud, *News feature*, Knight, J, **423**, 376
Writing: the clear choice, *Correspondence*, McCormick, S, **424**, 128
Writing: LEX and flexibility, *Correspondence*, Brent, A, **424**, 128
Writing: visuals are another story, *Correspondence*, Dominiczak, M H, McFall, K, **424**, 128
scintillating bolometry, Experimental detection of α-particles from the radioactive decay of natural bismuth, *Letter to Nature*, de Marcillac, P, Coron, N, Dambler, G, Leblanc, J, Moallc, J-P, **422**, 876
***SCL/tal-1* gene**, Haematopoietic stem cells retain long-term repopulating activity and multipotency in the absence of stem-cell leukaemia SCL/*tal-1* gene, *Letter to Nature*, Mikkola, H K A,

Klintman, J, Yang, H, Hock, H, Schlaeger, T M, Fujiwara, Y, Orkin, S H, **421**, 547
scrapie, Spongiform encephalopathies: Propagating warped prions, *News and views*, Pearson, H, **422**, 677
  How the Cows Turned Mad, Schwartz, M, Schneider, E, *Book review by* Race, R E, **423**, 118
Scrb1, Identification of *Vangl2* and *Scrb1* as planar polarity genes in mammals, *Letter to Nature*, Montcouquiol, M, Rachel, R A, Lanford, P J, Copeland, N G, Jenkins, N A, Kelley, M W, **423**, 173
sculpture, Sculpture: Breaking with tradition, *Book review*, Abbott, A, **425**, 19
  Palaeolithic ivory sculptures from southwestern Germany and the origins of figurative art, *Letter to Nature*, Conard, N J, **426**, 830
sea floor, *In situ* experimental evidence of the fate of a phytodetritus pulse at the abyssal sea floor, *Letter to Nature*, Witte, U, Wenzhöfer, F, Sommer, S, Boetius, A, Heinz, P, Aberle, N, Sand, M, Cremer, A, Abraham, W-R, Jorgensen, B B, Pfannkuche, O, **424**, 763
sea ice, High interannual variability of sea ice thickness in the Arctic region, *Letter to Nature*, Laxon, S, Peacock, N, Smith, D, **425**, 947
sea level, Sea-level fluctuations during the last glacial cycle, *Letter to Nature*, Siddall, M, Rohling, E J, Almogi-Labin, A, Hemleben, Ch, Meischner, D, Schmelzer, I, Smeed, D A, **423**, 853
sea lilies, Developmental biology: A larval revelation, *News and views*, Lacalli, T, **421**, 120
  Larval stages of a living sea lily (stalked crinoid echinoderm), *Letter to Nature*, Nakano, H, Hibino, T, Oji, T, Hara, Y, Amemiya, S, **421**, 158
sea shells, Synthetic sea shell, *News and views*, Rubner, M, **423**, 925
sea surface temperature, Predicted recurrences of mass coral mortality in the Indian Ocean, *Letter to Nature*, Sheppard, C R C, **425**, 294
sea-level pressure, Detection of human influence on sea-level pressure, *Letter to Nature*, Gillett, N P, Zwiers, F W, Weaver, A J, Stott, P A, **422**, 292
seabirds, Behavioural ecology: Fresh on the tang of citrus, *News and views*, Whitfield, J, **423**, 395
Seaborg, Glenn, Was visionary Seaborg from far-sighted stock?, *Correspondence*, Palmer, A R, **421**, 473
Search for Extraterrestrial Intelligence (SETI)
  In support of xeno-optimism, *Editorial*, **421**, 769
  Alien-hunters get scope to search, *News*, Whitfield, J, **422**, 249
  NASA on board as search for intelligent life takes off again, *News in brief*, **424**, 244
seasonal affective disorder, Restless nights, listless days, *News feature*, Abbott, A, **425**, 896
seasonal variation, FKF1 is essential for photoperiodic-specific light signalling in *Arabidopsis*, *Letter to Nature*, Imaizumi, T, Tran, H G, Swartz, T E, Briggs, W R, Kay, S A, **426**, 302
Seckel, Al, Court studies biology papers in row over title, *News in brief*, **423**, 578
Second World War, Einstein in Berlin, Levenson, T, *Book review by* Dyson, F J, **422**, 811
secondary-ion mass spectrometry, Surface science: View from the edge, *News and views*, Castner, D G, **422**, 129
secrecy, Secrecy is increasing in step with competition, *Correspondence*, Walsh, J P, Hong, W, **422**, 801
γ-secretase, The role of presenilin cofactors in the γ-secretase complex, *Letter to Nature*, Takasugi, N, Tomita, T, Hayashi, I, Tsuruoka, M, Niimura, M, Takahashi, Y, Thinakaran, G, Iwatsubo, T, **422**, 438
secretion, Functional and spatial segregation of secretory vesicle pools according to vesicle age, *Letter to Nature*, Duncan, R R, Greaves, J, Wiegand, U K, Matskevich, I, Bodammer, G, Apps, D K, Shipston, M J, Chow, R H, **422**, 176
security, Quantum cryptography: Code-breakers confounded, *News and views*, Hillery, M, **421**, 224
  Researcher uncovers truth behind wartime security slur, *News*, Dalton, R, **421**, 303
  Bacteria researcher plagued by fallout from security scare, *News in brief*, **421**, 306
  Europe told to unite on spy satellites, *News*, Schiermeier, Q, **422**, 361
  Physicist discouraged by heightened security, *News*, Brumfiel, G, **422**, 458
  Lack of trained security staff delays US visas, *Correspondence*, McSweegan, E, **423**, 115
  T-Ray specs, *News feature*, Zandonella, C, **424**, 721
  European Commission dips toe into military research, *News*, Willerroider, M, **425**, 549
  Foreign students to foot the bill for US security scheme, *News in brief*, **425**, 892
  US names first homeland security centre of excellence, *News in brief*, **426**, 489
SED1 protein, Reproductive biology: Forming an attachment, *News and views*, Thomas, C, **425**, 33
seed banks, Seed bank raises hope of Iraqi crop comeback, *News*, Clarke, T, **424**, 242
seed dispersion, Ecology: Palms in motion, *News and views*, Moore, P D, **426**, 26
segmentation clock, Periodic Notch inhibition by Lunatic Fringe underlies the chick segmentation clock, *Letter to Nature*, Dale, J K, Maroto, M, Dequeant, M L, Malapert, P, McGrew, M, Pourquie, O, **421**, 275
segmented body plan, Involvement of *Notch* and *Delta* genes in spider segmentation, *Letter to Nature*, Stollewerk, A, Schoppmeier, M, Damen, W G M, **423**, 863
seismic studies, A window on the inner Earth, *News feature*, Dalton, R, **421**, 10
  Interaction between Kilauea and Mauna Loa, *Brief communication*, Miklius, A, Cervelli, P, **421**, 229
  Damage to the shallow Landers fault from the nearby Hector Mine earthquake, *Letter to Nature*, Vidale, J E, Li, Y-G, **421**, 524
  Earth science: Getting the measure of creep, *News and views*, Clarke, T, **421**, 709
  A discontinuity in mantle composition beneath the southwest Indian ridge, *Letter to Nature*, Meyzen, C M, Toplis, M J, Humler, E, Ludden, J N, Mevel, C, **421**, 731
  Earth science: Stream flow and shaken soil, *News and views*, Clarke, T, **422**, 393
  Earth science: Stressed in Alaska, *News and views*, Lincoln, T, **422**, 572
  Earth science: Roots of the matter, *News and views*, Kennett, B L N, **422**, 674
  Magmatic events can produce rapid changes in hydrothermal vent chemistry, *Letter to Nature*, Lilley, M D, Butterfield, D A, Lupton, J E, Olson, E J, **422**, 878
  Quake triggers research expedition, *News*, Butler, D, **423**, 673
  Earth science: High expectations, *News and views*, Clarke, T, **424**, 143
  Post-earthquake ground movements correlated to pore-pressure transients, *Letter to Nature*, Jónsson, S, Segall, P, Pedersen, R, Björnsson, G, **424**, 179
  Reflection signature of seismic and aseismic slip on the northern Cascadia subduction interface, *Letter to Nature*, Nedimovic, M R, Hyndman, R D, Ramachandran, K, Spence, G D, **424**, 416
  Satellites aim to shake up quake predictions, *News*, Reichhardt, T, **424**, 478
  Possible thermal and chemical stabilization of body-centred-cubic iron in the Earth's core, *Letter to Nature*, Vocadlo, L, Alfè, D, Gillan, M J, Wood, I G, Brodholt, J P, Price, G D, **424**, 536
  Unusually large earthquakes inferred from tsunami deposits along the Kuril trench, *Letter to Nature*, Nanayama, F, Satake, K, Furukawa, R, Shimokawa, K, Atwater, B F, Shigeno, K, Yamaki, S, **424**, 660
  Earth science: Tiny triggers deep down, *News and views*, Green II, H W, **424**, 893
  Remote triggering of deep earthquakes in the 2002 Tonga sequences, *Letter to Nature*, Tibi, R, Wiens, D A, Inoue, H, **424**, 921
  Laboratory models of the thermal evolution of the mantle during rollback subduction, *Letter to Nature*, Kincaid, C, Griffiths, R W, **425**, 58
  Bending-related faulting and mantle serpentinization at the Middle America trench, *Article*, Ranero, C R, Phipps Morgan, J, McIntosh, K, Reichert, C, **425**, 367
  Boundary-layer mantle flow under the Dead Sea transform fault inferred from seismic anisotropy, *Letter to Nature*, Rumpker, G, Ryberg, T, Bock, G, Desert Seismology Group, **425**, 497
  Earthquakes: Good tidings, *News and views*, Scholz, C H, **425**, 670
  Global change: Eruptions linked to El Niño, *News and views*, de Silva, S, **426**, 239
  Proxy evidence of an El Niño-lke response to volcanic forcing, *Letter to Nature*, Adams, J B, Mann, M E, Ammann, C M, **426**, 274
  Explosive volcanism may not be an inevitable consequence of magma fragmentation, *Letter to Nature*, Gonnermann, H M, Manga, M, **426**, 432
  Migration of seismic scatterers associated with the 1993 Parkfield aseismic transient event, *Letter to Nature*, Niu, F, Silver, P G, Nadeau, R M, McEvilly, T V, **426**, 544
  Links between erosion, runoff variability and seismicity in the Taiwan orogen, *Letter to Nature*, Dadson, S J, Hovius, N, Chen, H, Dade, W B, Hsieh, M-L, Willett, S D, Hu, J-C, Horng, M-J, Chen, M-C, Stark, C P, Lague, D, Lin, J-C, **426**, 648
L-selectin, Developmental biology: Embryos gain foothold in the womb, *News and views*, Pearson, H, **421**, 331
self, The person within, *Concepts*, Damasio, A, **423**, 227
self-assembly, Retraction: Self-assembled monolayer organic field-effect transistors, *Letter to Nature*, Schön, J H, Meng, H, Bao, Z, **422**, 92
  Materials science: On the straight and narrow, *News and views*, Register, R A, **424**, 378
  Epitaxial self-assembly of block copolymers on lithographically defined nanopatterned substrates, *Letter to Nature*, Kim, S O, Solak, H H, Stoykovich, M P, Ferrier, N J, de Pablo, J J, Nealey, P F, **424**, 411
  The matrix, reinvented, *News feature*, Cyranoski, D, **424**, 870
  Controlling molecular desposition and layer structure with supramolecular surface assemblies, *Letter to Nature*, Theobold, J A, Oxtoby, N S, Philips, M A, Champness, N R, Beton, P H, **424**, 1029
  Self-assembly in aqueous solution of wheel-shaped Mo_{154} oxide clusters into vesicles, *Letter to Nature*, Liu, T, Diemann, E, Li, H, Dress, A W M, Müller, A, **426**, 59
  Drying-mediates self-assembly of nanoparticles, *Letter to Nature*, Rabani, E, eichman, D R, Geissler, P L, Brus, L E, **426**, 271
self-organization, Animal behaviour: How self-organization evolves, *News and views*, Visscher, P K, **421**, 799
  Self-organization of dissolved organic matter to micelle-like microparticles in river water, *Letter to Nature*, Kerner, M, Hohenberg, H, Ertl, S, Reckermann, M, Spitzy, A, **422**, 150
  A self-organizing system of repressor gradients establishes segmental complexity in *Drosophila*, *Letter to Nature*, Clyde, D E, Corado, M S G, Wu, X, Pare, A, Papatsenko, D, Small, S, **426**, 849
self-recognition, The Face in the Mirror: The Search for the Origins of Consciousness, Keenan, J, Gallup Jr, G G, Falk, D, *Book review by* Hauser, M, **424**, 15
***Sema3b* gene**, A gene expression atlas of the central nervous system based on bacterial artificial chromosomes, *Article*, Gong, S, Zheng, C, Doughty, M L, Losos, K, Didkovsky, N, Schambra, U B, Nowak, N J, Joyner, A, Leblanc, G, Hatten, M E, Heintz, N, **425**, 917
semantics, To put it simply, *Concepts*, Piattelli-Palmarini, M, **426**, 607
semaphorins, Neurobiology: A new way to network, *News and views*, Mehlen, P, **424**, 381
  Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function, *Article*, Serini, G, Valdembri, D, Zanivan, S, Morterra, G, Burkhardt, C, Caccavari, F, Zammataro, L, Primo, L, Tamagnone, L, Logan, M, Tessier-Lavigne, M, Taniguchi, M, Püschel, A W, Bussolino, F, **424**, 391
  Semaphorin 7A promotes axon outgrowth through integrins and MAPKs, *Article*, Pasterkamp, R J, Peschon, J J, Spriggs, M K, Kolodkin, A L, **424**, 398
  Erratum: Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function, *Letter to Nature*, Serini, G, Valdembri, D, Zanivan, S, Morterra, G, Burkhardt, C, Caccavari, F, Zammataro, L, Primo, L, Tamagnone, L, Logan, M, Tessier-Lavigne, M, Taniguchi, M, Puschel, A W, Bussolino, F, **424**, 974
semiconductors, Single-crystal gallium nitride nanotubes, *Letter to Nature*, Goldberger, J, He, R, Zhang, Y, Lee, S, Yan, H, Choi, H-J, Yang, P, **422**, 599
  Measurement of the displacement field of dislocations to 0.03 Å by electron microscopy, *Letter to Nature*, Hytch, M J, Putaux, J-L, Penisson, J-M, **423**, 270
  Universal alignment of hydrogen levels in semiconductors, insulators and solutions, *Letter to Nature*, Van de Walle, C G, Neugebauer, J, **423**, 626
  Chaperonin-mediated stabilization and ATP-triggered release of semiconductor nanoparticles, *Letter to Nature*, Ishii, D, Kinbara, K, Ishida, Y, Ishii, N, Okochi, M, Yohda, M, Aida, T, **423**, 628
  Ultrafast terahertz probes of transient conducting and insulating phases in an electron-hole gas, *Letter to Nature*, Kaindl, R A, Carnahan, M A, Hagele, D, Lövenich, R, Chamla, D S, **423**, 734
  Materials science: The road to diamond wafers, *News and views*, Lee, S T, Lifshitz, Y, **424**, 500
  The break-up of heavy electrons at a quantum critical point, *Letter to Nature*, Custers, J, Gegenwart, P, Wilhelm, H, Neumaier, K, Tokiwa, Y, Tovarelli, O, Geibel, C, Steglich, F, Pepin, C, Coleman, P, **424**, 524
  Ballistic carbon nanotube field-effect transistors, *Letter to Nature*, Javey, A, Guo, J, Wang, Q, Lundstrom, M, Dai, H, **424**, 654
  Optical microcavities, *Insight review article*, Vahala, K, **424**, 839
  Electric field effect in correlated oxide systems, *Progress article*, Ahn, C H, Triscone, J-M, Mannhart, J, **424**, 1015
  Entangled quantum state of magnetic dipoles, *Letter to Nature*, Ghosh, S, Rosenbaum, T F, Aeppli, G, Coppersmith, S N, **425**, 48
  Microphotonics: Tiny laser notches up success, *News and views*, Ball, P, **425**, 143
  High-performance thin-film transistors using semiconductor nanowires and nanoribbons, *Letter to Nature*, Duan, X, Niu, C, Sahi, V, Chen, J, Parce, J W, Empedocles, S, Goldman, J L, **425**, 274
  Single-electron transistor of a single organic molecule with access to several redox states, *Letter to Nature*, Kubatkin, S, Danilov, A, Hjort, M, Cornil, J, Brédas, J-L, Stuhr-Hansen, N, Hedegard, P, Bjornholm, T, **425**, 698
  Photonics: Defective quality, *News and views*, Gerstner, E, **425**, 912
  Femtophysics: Birth of a quasiparticle, *News and views*, Leitenstorfer, A, **426**, 23
  Non-saturating magnetoresistance in heavily disordered semiconductors, *Letter to Nature*, Parish, M M, Littlewood, P B, **426**, 162
  A polymer/semiconductor write-once read-many-times memory, *Letter to Nature*, Moller, S, Perlov, C, Jackson, W, Taussig, C, Forrest, S R, **426**, 166
senescence, A DNA damage checkpoint response in telomere-initiated senescence, *Letter to Nature*, d'Adda di Fagagna, F, Reaper, P M, Clay-Farrace, L, Fiegler, H, Carr, P, von Zglinicki, T, Saretzki, G, Carter, N P, Jackson, S P, **426**, 194
senile plaques, Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration, *Letter to Nature*, Liou, Y-C, Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P, **424**, 556
sense organ precursors, Long-range signalling by touch, *News and views*, Cohen, S M, **426**, 503
senses, Seeing sense, *Science in culture*, Kemp, M, **424**, 18
  Ion channels: Hearing aid, *News and views*, Dumont, R A, Gillespie, P G, **424**, 28
  Long-range signalling by touch, *News and views*, Cohen, S M, **426**, 503
  TRP channels as cellular sensors, *Review article*, Clapham, D E, **426**, 517
sensors, Miniaturized gas ionization sensors using carbon nanotubes, *Letter to Nature*, Modi, A, Koratkar, N, Lass, E, Wei, B, Ajayan, P M, **424**, 171
  Universities armed with cash for biotechnology, *News in brief*, **425**, 9
  Explosives: A microsensor for trinitrotoluene vapour, *Brief communication*, Pinnaduwage, L A, Gehl, A, Hedden, D L, Muralidharan, G, Thundat, T, Lareau, R T, Sulchek, T, Manning, L, Rogers, B, Jones, M, Adams, J D, **425**, 474
  TRP channels as cellular sensors, *Review article*, Clapham, D E, **426**, 517
sensory feedback, Spontaneous muscle twitches during sleep guide spinal self-organization, *Letter to Nature*, Petersson, P, Waldenstrom, A, Fahraeus, C, Schouenborg, J, **424**, 72

sensory neurons, Non-classical receptive field mediates switch in a sensory neuron's frequency tuning, *Letter to Nature*, Chacron, M J, Doiron, B, Maler, L, Longtin, A, Bastian, J, **423**, 77
  Addendum: Non-classical receptive field mediates switch in a sensory neuron's frequency tuning, *Letter to Nature*, Chacron, M J, Doiron, B, Maler, L, Longtin, A, Bastian, J, **423**, 1018
sensory organ precursors, Delta-promoted filopodia mediate long-range lateral inhibition in *Drosophila*, *Letter to Nature*, de Joussineau, C, Soule, J, Martin, M, Anguille, C, Montcourrier, P, Alexandre, D, **426**, 555
sensory perception, Ion channels: Hearing aid, *News and views*, Dumont, R A, Gillespie, P G, **424**, 28
sensory stimulation, Attractor dynamics of network UP states in the neocortex, *Letter to Nature*, Cossart, R, Aronov, D, Yuste, R, **423**, 283
sensory transduction, Sensory transduction: Feel the heat, *News and views*, Craven, R, **423**, 496
  Sensory transduction: Not to be sneezed at, *News and views*, Wood, H, **424**, 740
separation, Microfluidic sorting in an optical lattice, *Letter to Nature*, MacDonald, M P, Spalding, G C, Dholakia, K, **426**, 421
sepsis, Inflammation: A nervous connection, *News and views*, Libert, C, **421**, 328
  Nicotinic acetylcholine receptor α7 subunit is an essential regulator of inflammation, *Letter to Nature*, Wang, H, Yu, M, Ochani, M, Amella, C A, Tanovic, M, Susarla, S, Li, J H, Wang, H, Yang, H, Ulloa, L, Al-Abed, Y, Czura, C J, Tracey, K J, **421**, 384
SERCA inhibitors, Artemisinins target the SERCA of *Plasmodium falciparum*, *Letter to Nature*, Eckstein-Ludwig, U, Webb, R J, van Goethem, I D A, East, J M, Lee, A G, Kimura, M, O'Neill, P M, Bray, P G, Ward, S A, Krishna, S, **424**, 957
Serizawa, Hiroaki, Biologist gets minimum sentence in 'espionage' case, *News*, Cyranoski, D, **423**, 575
serotonin, Neurobiology: Whisked to perfection by serotonin, *News and views*, Pilcher, H R, **424**, 507
serpins, Developmental biology: Serpin takes its toll, *News and views*, Heemels, M-T, **426**, 514
Serre, Jean-Pierre, Life's work adds up to prize for maths master, *News in brief*, **422**, 552
serum resistance associated protein, Apolipoprotein L-I is the trypanosome lytic factor of human serum, *Letter to Nature*, Vanhamme, L, Paturiaux-Hanocq, F, Poelvoorde, P, Nolan, D P, Lins, L, Van Den Abbeele, J, Pays, A, Tebabi, P, Van Xong, H, Jacquet, A, Moguilevsky, N, Dieu, M, Kane, J P, De Baetselier, P, Brasseur, R, Pays, E, **422**, 83
SET proteins, Structure and catalytic mechanism of the human histone methyltransferase SET7/9, *Letter to Nature*, Xiao, B, Jing, C, Wilson, J R, Walker, P A, Vasisht, N, Kelly, G, Howell, S, Taylor, I A, Blackburn, G M, Gamblin, S J, **421**, 652
severe acute respiratory syndrome, Health labs focus on mystery pneumonia, *News*, Cyranoski, D, **422**, 247
  Mystery virus slow to yield its identity as patient numbers rise, *News*, Pearson, H, **422**, 364
  China joins investigation of mystery pneumonia, *News*, Cyranoski, D, **422**, 459
  There are two sides to biodefence, *Opinion*, **422**, 545
  Cancer conference scrapped as outbreak intensifies, *News*, Clarke, T, **422**, 547
  Researchers get to grips with cause of pneumonia epidemic, *News*, Knight, J, **422**, 547
  Chinese authorities admit mishandling of Guangdong crisis, *News*, Cyranoski, D, **422**, 548
  Infection risk puts the brakes on Canada's biomedical research, *News*, Clarke, T, **422**, 652
  Taiwan left isolated in fight against SARS, *News*, Cyranoski, D, **422**, 652
  Apartment complex holds clues to pandemic potential of SARS, *News*, Cyranoski, D, Abbott, A, **423**, 3
  Biologists seek to head off future sources of infection, *News*, Abbott, A, Cyranoski, D, **423**, 3
  Critics slam treatment for SARS as ineffective and perhaps dangerous, *News*, Cyranoski, D, **423**, 4
  Asian airports use thermal imaging to hunt down SARS, *News in brief*, **423**, 8
  US Army joins hunt for SARS drug, *News*, Abbott, A, **423**, 103
  First past the post, *News feature*, Abbott, A, **423**, 114
  Gene patents and the public good, *Opinion*, **423**, 207
  US acts to keep SARS sequence public, *News in brief*, **423**, 214
  Aetiology: Koch's postulates fulfilled for SARS virus, *Brief communication*, Fouchier, R A M, Kuiken, T, Schutten, M, van Amerongen, G, van Doornum, G J J, van den Hoogen, B G, Peiris, M, Lim, W, Stohr, K, Osterhaus, A D M E, **423**, 240
  Animal studies hint at staying power of SARS, *News*, Pearson, H, **423**, 370
  Politics hindering SARS work, *Correspondence*, Hsieh, Y-H, **423**, 381
  Virus detectives seek source of SARS in China's wild animals, *News*, Cyranoski, D, Abbott, A, **423**, 467
  Taiwan slams health officials for 'lack of help' over SARS, *News in brief*, **423**, 472
  Pet theory comes to the fore in fight against SARS, *News*, Abbott, A, **423**, 576
  SARS, a challenge from the South, *Correspondence*, Singh, J A, **423**, 585
  SARS anxiety disrupts conferences, *News in brief*, **423**, 676
  China and Germany join forces over SARS, *News*, Abbott, A, **423**, 791
  WHO issues rallying cry to keep fight against SARS on track, *News*, Cyranoski, D, **423**, 905
  We have been warned, *Opinion*, **424**, 113
  Was the fuss overblown?, *News feature*, Pearson, H, **424**, 121
  Is the outbreak finally over?, *News feature*, Clarke, T, **424**, 122
  Are we prepared for the next viral threat?, *News feature*, Abbott, A, **424**, 123
  How and who does SARS kill?, *News feature*, Knight, J, **424**, 123
  Where did the SARS virus come from?, *News feature*, Cyranoski, D, **424**, 124
  Why China?, *News feature*, Cyranoski, D, **424**, 124
  Are drugs for SARS on the horizon?, *News feature*, Abbott, A, **424**, 125
  Is the SARS virus mutating?, *News feature*, Knight, J, **424**, 125
  What about a vaccine?, *News feature*, Clarke, T, **424**, 126
  Improved SARS test cuts final case count in United States, *News in brief*, **424**, 362
  Quest for SARS source gathers pace in bid to thwart resurgence, *News*, Abbott, A, **424**, 983
  SARS triggers biomedical shake-up in China, *News*, Cyranoski, D, **425**, 333
  SARS virus infection of cats and ferrets, *Brief communication*, Martina, B E E, Haagmans, B L, Kuiken, T, Fouchier, R A M, Rimmelzwaan, G F, van Amerongen, G, Peiris, J S M, Lim, W, Osterhaus, A D M E, **425**, 915
  Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus, *Letter to Nature*, Li, W, Moore, M J, Vasilieva, N, Sui, J, Wong, S K, Berne, M A, Somasundaran, M, Sullivan, J L, Luzuriaga, K, Greenough, T C, Choe, H, Farzan, M, **426**, 450
  Epidemics-in-waiting, *News and views*, Bull, J, Dykhuizen, D, **426**, 609
  The role of evolutionary in the emergence of infectious diseases, *Letter to Nature*, Antia, R, Regoes, R R, Koella, J C, Bergstrom, C T, **426**, 658
  China: From SARS to the stars, *News feature*, Cyranoski, D, **426**, 752
severe combined immunodeficiency disorder, Second cancer case halts gene-therapy trials, *News*, Check, E, **421**, 305
  Cancer fears casts doubts on future of gene therapy, *News*, Check, E, **421**, 678
  Cancer risk prompts US to curb gene therapy, *News*, Check, E, **422**, 7
  Harmful potential of viral vectors fuels doubts over gene therapy, *News*, Check, E, **423**, 573
  Looking into the safety of AAV vectors, *Correspondence*, Kay, M A, Nakai, H, **424**, 251
sewage, Studies assess risks of drugs in water cycle, *News*, Schiermeier, Q, **424**, 5
sex body, Developmental biology: The trouble with the sex body, *News and views*, Lincoln, T, **422**, 677
sex change, Changing sex at the same relative body size, *Brief communication*, Allsop, D J, West, S A, **425**, 783
sex chromosomes, The X in Sex: How the Chromosome Controls our Lives, Bainbridge, D, *Book review by* Marshall Graves, J A, **423**, 223
  Y: The Descent of Men, Jones, S, *Book review by* Marshall Graves, J A, **423**, 223
sex ratio, Sex Wars: Genes, Bacteria, and Biased Sex Ratios, Majerus, M E N, *Book review by* Arnqvist, G, **424**, 616
sexual behaviour, A plea for diversity, *News feature*, Gewin, V, **422**, 368
  Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Griffith, S C, Montgomerie, R, **422**, 833
  Reply: Evolutionary biology: Why do birds engage in extra-pair copulation?, *Brief communication*, Blomqvist, D, Andersson, M, Kïpper, C, Cuthill, I C, Kis, J, Lanctot, R B, Sandercock, B K, Székely, T, Wallander, J, Kempenaers, B, **422**, 833
  Polarized light as a butterfly mating signal, *Brief communication*, Sweeney, A, Jiggins, C, Johnsen, S, **423**, 31
  Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Jones, J H, Handcock, M S, **423**, 605
  Reply: Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Liljeros, F, Edling, C R, Stanley, H E, Aberg, Y, Amaral, L A N, **423**, 606
  Evolution: The battle between the sexes, *News and views*, Tregenza, T, **423**, 929
  The evolution of reproductive isolation through sexual conflict, *Letter to Nature*, Martin, O Y, Hosken, D J, **423**, 979
  Reversal of sex roles in nuptial feeding, *Brief communication*, Arnqvist, G, Jones, T M, Elgar, M A, **424**, 387
  Don't create a climate of fear, *Opinion*, **425**, 885
sexual development, Developmental biology: Gender benders, *News and views*, Koopman, P, **426**, 241
  Testis determination requires insulin receptor family function in mice, *Letter to Nature*, Nef, S, Verma-Kuvari, S, Merenmies, J, Vassalli, J-D, Efstratiadis, A, Accili, D, Parada, L F, **426**, 291
sexual dimorphism, Extreme reversed sexual size dimorphism in the extinct New Zealand moa Dinornis, *Letter to Nature*, Bunce, M, Worthy, T H, Ford, T, Hoppitt, W, Willerslev, E, Drummond, A, Cooper, A, **425**, 172
sexual selection, Directional postcopulatory sexual selection revealed by artificial insemination, *Letter to Nature*, Evans, J P, Zane, L, Francescato, S, Pilastro, A, **421**, 360
sexually transmitted diseases, Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Jones, J H, Handcock, M S, **423**, 605
  Reply: Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Liljeros, F, Edling, C R, Stanley, H E, Aberg, Y, Amaral, L A N, **423**, 606
Seychelles warbler, Avian behaviour: Altruism and infidelity among warblers, *Brief communication*, Richardson, D S, Komdeur, J, Burke, T, **422**, 580
SH3 domains, Optimization of specificity in a cellular protein interaction network by negative selection, *Letter to Nature*, Zarrinpar, A, Park, S-H, Lim, W A, **426**, 676
***Shaker* conductance**, The contribution of *Shaker* K^+ channels to the information capacity of *Drosophila* photoreceptors, *Letter to Nature*, Niven, J E, Vähäsöyrinki, M, Kauranen, M, Hardie, R C, Juusola, M, Weckström, M, **421**, 630
Shakespeare, William, The Bard on the Brain: Understanding the Mind Through the Art of Shakespeare and the Science of Brain Imaging, Matthews, P M, McQuain, J, *Book review by* Martin, K A C, **424**, 254
shape, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123
  Growth dynamics underlying petal shape and asymmetry, *Letter to Nature*, Rolland-Lagan, A-G, Bangham, J A, Coen, E, **422**, 161
shape-memory, Addendum: Magnetic shape-memory effects in a crystal, *Brief communication*, Lavrov, A N, Komiya, S, Ando, Y, **421**, 230
shape-memory alloys, Materials science: Memories made in microstructure, *News and views*, Lobo, C, **423**, 30
sharks, Sensing temperature without ion channels, *Brief communication*, Brown, B R, **421**, 495
shavenbaby, Regulatory evolution of *shavenbaby/ovo* underlies multiple cases of morphological parallelism, *Letter to Nature*, Sucena, E, Delon, I, Jones, I, Payre, F, Stern, D L, **424**, 935
shear stress, Logarithmic rate dependence of force networks in sheared granular materials, *Letter to Nature*, Hartley, R R, Behringer, R P, **421**, 928
  Explosive volcanism may not be an inevitable consequence of magma fragmentation, *Letter to Nature*, Gonnermann, H M, Manga, M, **426**, 432
shear zone, Kinematics: Wide shear zones in granular bulk flow, *Brief communication*, Fenistein, D, van Hecke, M, **425**, 256
sheep, Prion diseases: BSE in sheep bred for resistance to infection, *Brief communication*, Houston, F, Goldmann, W, Chong, A, Jeffrey, M, Gonzalez, L, Foster, J, Parnham, D, Hunter, N, **423**, 498
  Sheep horns downsized by hunters' taste for trophies, *News*, Whitfield, J, **426**, 595
  Undesirable evolutionary consequences of trophy hunting, *Letter to Nature*, Coltman, D W, O'Donoghue, P, Jorgensen, J T, Hogg, J T, Strobeck, C, Festa-Blanchet, M, **426**, 655
shellfish, Ecologists seek to turn tide on Colorado River, *News*, Dalton, R, **423**, 793
shells, Architecture and material properties of diatom shells provide effective mechanical protection, *Letter to Nature*, Hamm, C E, Merkel, R, Springer, O, Jurkojc, P, Maier, C, Prechtel, K, Smetacek, V, **421**, 841
Shenzhou 3 space capsule, China plays cards close to its chest over manned space shot, *News*, Cyranoski, D, **425**, 438
ships, research, Stealth ship sets sail for a quiet life fishing for data, *News*, Moore, J, **423**, 7
shoes, Medical technology: Balancing the unbalanced, *News and views*, Moss, F, Milton, J G, **425**, 911
shooting stars, Catch a falling star, *News and views*, Drummond, J, **423**, 123
short axon cells, Centre–surround inhibition among olfactory bulb glomeruli, *Article*, Aungst, J L, Heyward, P M, Puche, A C, Karnup, S V, Hayar, A, Szabo, G, Shipley, M T, **426**, 623
Shubin, Neil, Developing themes — Neil Shubin, *Lifelines*, **422**, 381
Siberia, Plate tectonics: America claims the Far East, *News and views*, Ball, P, **425**, 472
SID-1 protein, Molecular biology: Spreading like wildfire, *News and views*, Heemels, M-T, **425**, 253
sidedness, Adult persistence of head-turning asymmetry, *Brief communication*, Güntürkün, O, **421**, 711
  Addendum: Adult persistence of head-turning asymmetry, *Brief communication*, Gunturkun, O, **422**, 834
signal transduction, IGF-1 receptor regulates lifespan and resistance to oxidative stress in mice, *Letter to Nature*, Holzenberger, M, Dupont, J, Ducos, B, Leneuve, P, Geloen, A, Even, P C, Cervera, P, Le Bouc, Y, **421**, 182
  Coupling of agonist binding to channel gating in the $GABA_A$ receptor, *Letter to Nature*, Kash, T L, Jenkins, A, Kelley, J C, Trudell, J R, Harrison, N L, **421**, 272
  Fidelity in planar cell polarity signalling, *Letter to Nature*, Ma, D, Yang, C-h, McNeill, H, Simon, M A, Axelrod, J D, **421**, 543
  Taste: Flavour of the week in signalling pathways, *News and views*, Heemels, M-T, **421**, 804
  STAT3 signalling is required for leptin regulation of energy balance but not reproduction, *Letter to Nature*, Bates, S H, Stearns, W H, Dundon, T A, Schubert, M, Tso, A W K, Wang, Y, Banks, A S, Lavery, H J, Haq, A K, Maratos-Flier, E, Neel, B G, Schwartz, M W, Myers Jr, M G, **421**, 856
  The key to signalling, *Concepts*, Kushiro, T, Nambara, E, McCourt, P, **422**, 122
  Hedgehog signalling within airway epithelial progenitors and in small-cell lung cancer, *Letter to Nature*, Watkins, D N, Berman, D M, Burkholder, S G, Wang, B, Beachy, P A, Baylin, S B, **422**, 313
  Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **422**, 317
  PAC1 phosphatase is a transcription target of p53 in signalling apoptosis and growth suppression, *Letter to Nature*, Yin, Y, Liu, Y-X, Jin, Y J, Hall, E J, Barrett, J C, **422**, 527
  The exocyst complex is required for targeting of Glut4 to the plasma membrane by insulin, *Letter to Nature*, Inoue, M, Chang, L, Hwang, J, Chiang, S-H, Saltiel, A R, **422**, 629

A role for Wnt signalling in self-renewal of haematopoietic stem cells, *Article*, Reya, T, Duncan, A W, Ailles, L, Domen, J, Scherer, D C, Willert, K, Hintz, L, Nusse, R, Weissman, I L, **423**, 409

Wnt proteins are lipid-modified and can act as stem cell growth factors, *Letter to Nature*, Willert, K, Brown, J D, Danenberg, E, Duncan, A W, Weissman, I L, Reya, T, Yates III, J R, Nusse, R, **423**, 448

Setback forces rethink for cell signalling alliance, *News in brief*, **423**, 472

Cell biology: Rafting for dear life, *News and views*, Heemels, M-T, **423**, 496

Mitochondrial membrane remodelling regulated by a conserved rhomboid protease, *Letter to Nature*, McQuibban, G A, Saurya, S, Freeman, M, **423**, 537

Modulation of oestrogen receptor signalling by association with the activated dioxin receptor, *Letter to Nature*, Ohtake, F, Takeyama, K-I, Matsumoto, T, Kitagawa, H, Yamamoto, Y, Nohara, K, Tohyama, C, Krust, A, Mimura, J, Chambon, P, Yanagisawa, J, Fujii-Kuriyama, Y, Kato, S, **423**, 545

Signal transduction: A regulator branches out, *News and views*, Israël, A, **423**, 596

Insights into IgA-mediated immune responses from the crystal structures of human FcαRI and its complex with IgA1-Fc, *Article*, Herr, A B, Ballister, E R, Bjorkman, P J, **423**, 614

Sphingolipid signalling in *Arabidopsis* guard cells involves heterotrimeric G proteins, *Letter to Nature*, Coursol, S, Fan, L-M, Le Stunff, H, Spiegel, S, Gilroy, S, Assmann, S M, **423**, 651

Pathogen-induced systemic plant signal triggers DNA rearrangements, *Letter to Nature*, Kovalchuk, I, Kovalchuk, O, Kalck, V, Boyko, V, Filkowski, J, Heinlein, M, Hohn, B, **423**, 760

Redox regulation of protein tyrosine phosphate 1B involves a sulphenyl-amide intermediate, *Letter to Nature*, Salmeen, A, Andersen, J N, Myers, M P, Meng, T-C, Hinks, J A, Tonks, N K, Barford, D, **423**, 769

Oxidation state of the active-site cysteine in protein tyrosine phosphatase 1B, *Letter to Nature*, van Montfort, R L M, Congreve, M, Tisi, D, Carr, R, Jhoti, H, **423**, 773

Structure and gating mechanism of the acetylcholine receptor pore, *Article*, Miyazawa, A, Fujiyoshi, Y, Unwin, N, **423**, 949

Semaphorin 7A promotes axon outgrowth through integrins and MAPKs, *Article*, Pasterkamp, R J, Peschon, J J, Spriggs, M K, Kolodkin, A L, **424**, 398

Signal transduction: Life on Mars, cellularly speaking, *News and views*, Di Fiore, P P, **424**, 624

New player in pain, *News and views*, McCleskey, E W, **424**, 729

Signal transduction: Aspirin, ubiquitin and cancer, *News and views*, Wilkinson, K D, **424**, 738

Identification of *Lps2* as a key transducer of MyD88-independent TIR signalling, *Article*, Hoebe, K, Du, X, Georgel, P, Janssen, E, Tabeta, K, Kim, S O, Goode, J, Lin, P, Mann, N, Mudd, S, Crozat, K, Sovath, S, Han, J, Beutler, B, **424**, 743

Feedback regulation of MAPK signalling by an RNA-binding protein, *Letter to Nature*, Sugiura, R, Kita, A, Shimizu, Y, Shuntoh, H, Sio, S O, Kuno, T, **424**, 961

Erratum: Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **424**, 974

Developmental biology: Creating diversity, *News and views*, Heemels, M-T, **424**, 1011

Developmental biology: A tadpole's tale, *News and views*, Tromans, A, **425**, 250

Developmental biology: Partners united, *News and views*, Freeman, M, **425**, 468

Differential regulation of EIN3 stability by glucose and ethylene signalling in plants, *Letter to Nature*, Yanagisawa, S, Yoo, S-D, Sheen, J, **425**, 521

The Wnt/β-catenin pathway regulates cardiac valve formation, *Letter to Nature*, Hurlstone, A F L, Haramis, A-P G, Wienholds, E, Begthel, H, Korving, J, van Eeden, F, Cuppen, E, Zivkovic, D, Plasterk, R H A, Clevers, H, **425**, 633

Widespread requirement for Hedgehog ligand stimulation in growth of digestive tract tumours, *Letter to Nature*, Berman, D M, Karhadkar, S S, Maitra, A, Montes de Oca, R, Gerstenblith, M R, Briggs, K, Parker, A R, Shimada, Y, Eshleman, J R, Watkins, D N, Beachy, P A, **425**, 846

Hedgehog is an early and late mediator of pancreatic cancer tumorigenesis, *Letter to Nature*, Thayer, S P, Pasca di Magliano, M, Heiser, P W, Nielsen, C M, Roberts, D J, Lauwers, G Y, Qi, Y P, Gysin, S, Fernandez-del Castillo, C, Yajnik, V, Antoniu, B, McMahon, M, Warshaw, A L, Hebrok, M, **425**, 851

Motor neuron columnar fate imposed by sequential phases of Hox-c activity, *Article*, Dasen, J S, Liu, J-P, Jessell, T M, **425**, 926

Neurobiology: Signals that make waves, *News and views*, Reichardt, L F, **426**, 25

The immune response of *Drosophila*, *Review article*, Hoffmann, J A, **426**, 33

Truncated TrkB-T1 mediates neurotrophin-evoked calcium signalling in glia cells, *Letter to Nature*, Rose, C R, Blum, R, Pichler, B, Lepier, A, Kafitz, K W, Konnerth, A, **426**, 74

Hedgehog signalling in the mouse requires intraflagellar transport proteins, *Letter to Nature*, Huangfu, D, Liu, A, Rakeman, A S, Murcia, N S, Miswander, L, Anderson, K V, **426**, 83

Signal transduction: An eye on organ development, *News and views*, Epstein, J A, Neel, B G, **426**, 238

Eya protein phosphatase activity regulates Six1-Dach-Eya transcriptional effects in mammalian organogenesis, *Article*, Li, X, Oghi, K A, Zhang, J, Krones, A, Bush, K T, Glass, C K, Nigam, S K, Aggarwal, A K, Maas, R, Rose, D W, Rosenfeld, M G, **426**, 247

Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice, *Letter to Nature*, Sakaguchi, N, Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S, **426**, 454

A positive-feedback-based bistable 'memory module' that governs a cell fate decision, *Letter to Nature*, Xiong, W, Ferrell Jr, J E, **426**, 460

Long-range signalling by touch, *News and views*, Cohen, S M, **426**, 503

TRP channels as cellular sensors, *Review article*, Clapham, D E, **426**, 517

Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2, *Letter to Nature*, Lorenz, K, Lohse, M J, Quitterer, U, **426**, 574

Signal transduction: Molecular monogamy, *News and views*, Endy, D, Yaffe, M B, **426**, 614

Genetics: Influence of TOR kinase on lifespan in C. elegans, *Brief communication*, Vellai, T, Takacs-Vellai, K, Zhang, Y, Kovacs, A L, Orosz, L, Muller, F, **426**, 620

Optimization of specificity in a cellular protein interaction network by negative selection, *Letter to Nature*, Zarrinpar, A, Park, S-H, Lim, W A, **426**, 676

sildenafil, Structure of the catalytic domain of human phosphodiesterase 5 with bound drug molecules, *Letter to Nature*, Sung, B-J, Hwang, K Y, Jeon, Y H, Lee, J I, Heo, Y-S, Kim, J H, Moon, J, Yoon, J M, Hyun, Y-L, Kim, E, Eum, S J, Park, S-Y, Lee, J-O, Lee, T G, Ro, S, Cho, J M, **425**, 98

silica, Photocontrolled reversible release of guest molecules from coumarin-modified mesoporous silica, *Letter to Nature*, Mal, N K, Fujiwara, M, Tanaka, Y, **421**, 350

Iron-silica interaction at extreme conditions and the electrically conducting layer at the base of Earth's mantle, *Letter to Nature*, Dubrovinsky, L, Dubrovinskaia, N, Langenhorst, F, Dobson, D, Rubie, D, Gessmann, C, Abrikosov, I A, Johansson, B, Baykov, V I, Vitos, L, Le Bihan, T, Crichton, W A, Dmitriev, V, Weber, H-P, **422**, 58

silica waveguides, Subwavelength-diameter silica wires for low-loss optical wave guiding, *Letter to Nature*, Tong, L, Gattass, R R, Ashcom, J B, He, S, Lou, J, Shen, M, Maxwell, I, Mazur, E, **426**, 816

silicon, A stable silicon-based allene analogue with a formal *sp*-hybridized silicon atom, *Letter to Nature*, Ishida, S, Iwamoto, T, Kira, M, **421**, 725

Asymmetric pores in a silicon membrane acting as massively parallel brownian ratchets, *Letter to Nature*, Matthias, S, Müller, F, **424**, 53

Photonics: Drawing a line in silicon, *News and views*, Ball, P, **424**, 385

The birth of a quasiparticle in silicon observed in time-frequency space, *Letter to Nature*, Hase, M, Kitajima, M, Constantinescu, A M, Petek, H, **426**, 51

silicon chips, Quantum bits and silicon chips, *News feature*, Hogan, J, **424**, 484

silicon devices, Nanoelectronics: Silicon springs leaks, *News and views*, Ball, P, **422**, 393

silk, Biomaterials: Silk's secrets, *News and views*, Atkins, E, **424**, 1010

Mechanism of silk processing in insects and spiders, *Letter to Nature*, Jin, H-J, Kaplan, D L, **424**, 1057

Spider Webs and Silks: tracing Evolution from Molecules to Genes to Phenotypes, Craig, C L, *Book review by* Vollrath, F, **426**, 121

silkworms, Biomaterials: Silk's secrets, *News and views*, Atkins, E, **424**, 1010

Siloam Tunnel, Radiometric dating of the Siloam Tunnel, Jerusalem, *Letter to Nature*, Frumkin, A, Shimron, A, Rosenbaum, J, **425**, 169

silver chalcogenides, Condensed-matter physics: The quest for imperfection, *News and views*, Rosenbaum, T F, **426**, 135

Non-saturating magnetoresistance in heavily disordered semiconductors, *Letter to Nature*, Parish, M M, Littlewood, P B, **426**, 162

Singapore, Swamp row bogs down Singapore's bid to reclaim land, *News*, Cyranowski, D, **426**, 592

Singapore, deforestation, Catastrophic extinctions follow deforestation in Singapore, *Letter to Nature*, Brook, B W, Sodhi, N S, Ng, P K L, **424**, 420

Singapore, research funding, Singapore slings cash at research centres, *News in brief*, **426**, 8

single electron transistors, Nanometre-scale displacement sensing using a single electron transistor, *Letter to Nature*, Knobel, R G, Cleland, A N, **424**, 291

single nucleotide polymorphisms, Biologists take tentative steps towards bespoke cancer drugs, *News*, Cyranoski, D, **423**, 209

Pharmacogenetics to come, *Opinion*, **425**, 749

single-molecule fluorescence polarization, Three-dimensional structural dynamics of myosin V by single-molecule fluorescence, *Article*, Forkey, J N, Quinlan, M E, Shaw, M A, Corrie, J E T, Goldman, Y E, **422**, 399

single-molecule magnets, Condensed-matter physics: Two bodies are better than one, *News and views*, Barbara, B, **421**, 32

singularity-induced diffusion, Uniform resonant chaotic mixing in fluid flows, *Letter to Nature*, Solomon, T H, Mezic, I, **425**, 376

siphoning, Archaeology: Tall story, *News and views*, Ball, P, **422**, 677

***SIR2* gene**, Ageless Quest: One Scientist's Search for Genes That Prolong Youth, Guarente, L, *Book review by* Partridge, L, **421**, 789

sirtuins, Small molecule activators of sirtuins extend *Saccharomyces cerevisiae* lifespan, *Letter to Nature*, Howitz, K T, Bitterman, K J, Cohen, H Y, Lamming, D W, Lavu, S, Wood, J G, Zipkin, R E, Chung, P, Kisielewski, A, Zhang, L-L, Scherer, B, Sinclair, D A, **425**, 191

Drinking your health? It's too early to say, *Correspondence*, Corder, R, Crozier, A, Kroon, P A, **426**, 119

sister chromatid exchange, The Bloom's syndrome helicase suppresses crossing over during homologous recombination, *Letter to Nature*, Wu, L, Hickson, I D, **426**, 870

Six proteins, Eyes absent represents a class of protein tyrosine phosphatase, *Letter to Nature*, Rayapureddi, J P, Kattamuri, C, Steinmetz, B D, Frankfort, B J, Ostrin, E J, Mardon, G, Hegde, R S, **426**, 295

skeletal disease, The genetic basis for skeletal diseases, *Insight review article*, Zelzer, E, Olsen, B R, **423**, 343

skeletal patterning, Deciphering skeletal patterning: clues from the limb, *Insight review article*, Mariani, F V, Martin, G R, **423**, 319

skeleton, The complexities of skeletal biology, *Insight overview*, Karsenty, G, **423**, 316

skeleton, cranial, Cranial skeletal biology, *Insight review article*, Helms, J A, Schneider, R A, **423**, 326

skin cancer, Cancer: More than skin deep, *News and views*, Bolotin, D, Fuchs, E, **421**, 594

NF-κB blockade and oncogenic Ras trigger invasive human epidermal neoplasia, *Letter to Nature*, Dajee, M, Lazarov, M, Zhang, J Y, Cai, Ti, Green, C L, Russell, A J, Marinkovich, M P, Tao, S, Lin, Q, Kubo, Y, Khavari, P A, **421**, 639

skinks, Ecology: Nuclear reptiles, *News and views*, Whitfield, J, **422**, 275

skull, The BMP antagonist noggin regulates cranial suture fusion, *Letter to Nature*, Warren, S M, Brunet, L J, Harland, R M, Economides, A N, Longaker, M T, **422**, 625

slavery, University faces up to wartime use of slaves, *News*, Abbott, A, **422**, 792

sleep, Spontaneous muscle twitches during sleep guide spinal self-organization, *Letter to Nature*, Petersson, P, Waldenstrom, A, Fahraeus, C, Schouenborg, J, **424**, 72

Consolidation during sleep of perceptual learning of spoken language, *Letter to Nature*, Fenn, K M, Nusbaum, H C, Margoliash, D, **425**, 614

sleep patterns, Timing is everything, *Opinion*, **425**, 885

Restless nights, listless days, *News feature*, Abbott, A, **425**, 896

sleeping sickness, Apolipoprotein L-I is the trypanosome lytic factor of human serum, *Letter to Nature*, Vanhamme, L, Paturiaux-Hanocq, F, Poelvoorde, P, Nolan, D P, Lins, L, Van Den Abbeele, J, Pays, A, Tebabi, P, Van Xong, H, Jacquet, A, Moguilevsky, N, Dieu, M, Kane, J P, De Baetselier, P, Brasseur, R, Pays, E, **422**, 83

slide rule, Watching an IT icon slide into history, *Correspondence*, Cram, W J, **422**, 801

sliding behaviour, Materials science: Molecules squeezed and stroked, *News and views*, Granick, S, Lin, Z, Bae, S C, **425**, 467

***slimfast* gene**, Physiology: Fat body sizes fly, *News and views*, Heemels, M-T, **425**, 472

slip bonds, Direct observation of catch bonds involving cell-adhesion molecules, *Letter to Nature*, Marshall, B T, Long, M, Piper, J W, Yago, T, McEver, R P, Zhu, C, **423**, 190

Slonczewski, Joan, Stranger than fiction — Joan Slonczewski, *Lifelines*, **426**, 501

slow light, Nonlinear optics: Braking at room temperature, *News and views*, Ball, P, **422**, 487

Quantum optics: Light at a standstill, *News and views*, Scully, M O, **426**, 610

SLP-65 protein, Deficiency of the adaptor SLP-65 in pre-B-cell acute lymphoblastic leukaemia, *Letter to Nature*, Jumaa, H, Bossaller, L, Portugal, K, Storch, B, Lotz, M, Flemming, A, Schrappe, M, Postila, V, Riikonen, P, Pelkonen, J, Niemeyer, C M, Reth, M, **423**, 452

Smad complex, Smad-dependent and Smad-independent pathways in TGF-β family signalling, *Review article*, Derynck, R, Zhang, Y E, **425**, 577

small interfering RNAs, Recognition of small interfering RNA by a viral suppressor of RNA silencing, *Letter to Nature*, Ye, K, Malinina, L, Patel, D J, **426**, 874

small protein B, Crystal structure of the transfer-RNA domain of transfer-messenger RNA in complex with SmpB, *Letter to Nature*, Gutmann, S, Haebel, P W, Metzinger, L, Sutter, M, Felden, B, Ban, N, **424**, 699

small science, Tapping the power of small institutions, *Commentary*, Keusch, G T, Medlin, C A, **422**, 561

small ubiquitin-related modifier (SUMO), Control of spontaneous and damage-induced mutagenesis by SUMO and ubiquitin conjugation, *Letter to Nature*, Stelter, P, Ulrich, H D, **425**, 188

Molecular biology: SUMO wrestles with genes, *News and views*, Pilcher, H R, **426**, 402

smallpox, Victims of smallpox vaccine 'should be compensated', *News in brief*, **422**, 106

Vaccine claim lifts company's stock but angers researchers, *News*, Check, E, **425**, 332

Planning for smallpox outbreaks, *Review article*, Ferguson, N M, Keeling, M J, Edmunds, W J, Gani, R, Grenfell, B T, Anderson, R M, Leach, S, **425**, 681

Boom, or bust?, *News feature*, Check, E, **426**, 598

Virology: Smallpox selective potential, *News and views*, Clarke, T, **426**, 618

smallpox vaccination, Heart-attack deaths raise fears over smallpox jabs, *News in brief*, **422**, 462

Immunology: Long gone, but not forgotten, *News and views*, Heemels, M-T, **426**, 402

smart gels, Cell biology: Torpedo smart gel, *News and views*, Pilcher, H R, **423**, 30

smart weapons, Analysts seek proof of military precision, *News*, Brumfiel, G, **422**, 362

SMART-1 spacecraft, Ion-powered probe set for year-long Moon trek, *News*, Brumfiel, G, **425**, 438

Smetacek, Victor, A voyage of discovery — Victor Smetacek, *Lifelines*, **421**, 897
smoking, Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
  Loss of integrin αvβ6-mediated TGF-β activation causes Mmp12-dependent emphysema, *Letter to Nature*, Morris, D G, Huang, X, Kaminski, N, Wang, Y, Shapiro, S D, Dolganov, G, Glick, A, Sheppard, D, **422**, 169
  Cancer: Further perils of passive smoking, *News and views*, Pilcher, H R, **425**, 472
Smyth, David, Behind the blooms — David Smyth, *Lifelines*, **422**, 121
snail fever, Worm genes harnessed to tackle snail fever, *News*, Cyranoski, D, **425**, 227
snails, Plant physiology, *News and views*, Surridge, C, **424**, 385
  Single-gene speciation by left-right reversal, *Brief communication*, Ueshima, R, Asami, T, **425**, 679
snapdragons, Flowers' wings, fruitflies' petals, *News and views*, Desplan, C, Lecuit, T, **422**, 123
  Growth dynamics underlying petal shape and asymmetry, *Letter to Nature*, Rolland-Lagan, A-G, Bangham, J A, Coen, E, **422**, 161
SNARE protein, SNARE-protein-mediated disease resistance at the plant cell wall, *Letter to Nature*, Collins, N C, Thordal-Christensen, H, Lipka, V, Bau, S, Kombrink, E, Qiu, J-L, Hückelhoven, R, Stein, M, Freialdenhoven, A, Somerville, S C, Schulze-Lefert, P, **425**, 973
sneezing, Sensory transduction: Not to be sneezed at, *News and views*, Wood, H, **424**, 740
snow, Avalanche!, *News feature*, Schiermeier, Q, **421**, 887
Snowball Earth, Snowball Earth, Nisbet, E, *Book review by* Walker, G, **422**, 812
social behaviour, Social insects: Cuticular hydrocarbons inform task decisions, *Brief communication*, Greene, M J, Gordon, D M, **423**, 32
  Spontaneous emergence of leaders and followers in foraging pairs, *Letter to Nature*, Rands, S A, Cowlishaw, G, Pettifor, R A, Rowcliffe, J M, Johnstone, R A, **423**, 432
  Complex hybrid origin of genetic caste determination in harvester ants, *Letter to Nature*, Helms Cahan, S, Keller, L, **424**, 306
social history, Einstein in Berlin, Levenson, T, *Book review by* Dyson, F J, **422**, 811
social issues, Genetics and Society: An Introduction, Pilnick, A, *Book review by* Steinbock, B, **421**, 213
social networks, Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Jones, J H, Handcock, M S, **423**, 605
  Reply: Social networks: Sexual contacts and epidemic thresholds, *Brief communication*, Liljeros, F, Edling, C R, Stanley, H E, Aberg, Y, Amaral, L A N, **423**, 606
social science, Social scientists call for abolition of dishonesty committee, *News*, Abbott, A, **421**, 681
sociobiology, Sociobiology: Worker nepotism among polygynous ants, *Brief communication*, Hannonen, M, Sundstrom, L, **421**, 910
  Behavioural ecology: Horns and lifestyle, *News and views*, Whitfield, J, **425**, 253
sociology, Sociology: The puzzle of human cooperation, *Brief communication*, Johnson, D D P, Stopka, P, Knights, S, **421**, 911
  Reply: Sociology: The puzzle of human cooperation, *Brief communication*, Fehr, E, Gächter, S, **421**, 912
  The nature of human altruism, *Review article*, Fehr, E, Fischbacher, U, **425**, 785
sodium, Planetary science: Sodium at Io, *News and views*, Hunten, D M, **421**, 30
  Volcanically emitted sodium chloride as a source for lo's neutral clouds and plasma torus, *Letter to Nature*, Lellouch, E, Paubert, G, Moses, J I, Schneider, N M, Strobel, D F, **421**, 45
soft matter, Soft matter: Paste inside, *News and views*, Ball, P, **421**, 907
  Materials science: Molecules squeezed and stroked, *News and views*, Granick, S, Lin, Z, Bae, S C, **425**, 467
software, Business backlash kills off software meeting, *News*, Butler, D, **424**, 984
soil carbon, Reduction of soil carbon formation by tropospheric ozone under increased carbon dioxide levels, *Letter to Nature*, Loya, W M, Pregitzer, K S, Karberg, N J, King, J S, Giardina, C P, **425**, 705
soil fauna, Soil invertebrate fauna enhances grassland succession and diversity, *Letter to Nature*, De Deyn, G B, Raaijmakers, C E, Zoomer, H R, Berg, M P, de Ruiter, P C, Verhoef, H A, Bezemer, T M, van der Putten, W H, **422**, 711
soil microorganisms, Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Stark, J M, Hart, S C, **423**, 137
  Reply: Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Johnson, D, Campbell, C D, Lee, J A, Callaghan, T V, Gwynn-Jones, D, **423**, 138
solar eclipse, Polar eclipse may cast light on solar size, *News in brief*, **426**, 376
solar energy, A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17
solar flares, Journey From the Center of the Sun, Zirker, J B, *Book review by* Klimchuk, J A, **421**, 894
  Bleak forecast for space weather, *News*, Reichhardt, T, **425**, 649
  Three dimensional magnetic field topology in a region of solar coronal heating, *Letter to Nature*, Solanki, S K, Lagg, A, Woch, J, Krupp, N, Collados, M, **425**, 692
  The Sun flares up with a record-breaking burst, *News in brief*, **426**, 112
  Polar eclipse may cast light on solar size, *News in brief*, **426**, 376
  Continuous magnetic reconnection at Earth's magnetopause, *Letter to Nature*, Frey, H U, Phan, T D, Fuselier, S A, Mende, S B, **426**, 533
Solar and Heliospheric Observatory, Repositioned Sun satellite beams in weather reports, *News in brief*, **423**, 910
Solar Impulse aircraft, Balloon adventurer seeks to broaden horizons, *News in brief*, **426**, 489
solar luminosity, High CO_2 levels in the Proterozoic atmosphere estimated from analyses of individual microfossils, *Letter to Nature*, Kaufman, A J, Xiao, S, **425**, 279
solar photocoagulation, Nothing new under the Sun?, *Correspondence*, Moseley, M, **425**, 237
solar physics, Solar physics: Heat exposure, *News and views*, Rosner, R, **425**, 672
solar power, Applied physics: Solar cells to dye for, *News and views*, Grätzel, M, **421**, 586
  A photovoltaic device structure based on internal electron emission, *Letter to Nature*, McFarland, E W, Tang, J, **421**, 616
  Balloon adventurer seeks to broaden horizons, *News in brief*, **426**, 489
solar sails, Compass test helps solar sailors reach for the stars, *News in brief*, **425**, 114
solar storms, Storms from the Sun: The Emerging Science of Space Weather, Carlowicz, M J, Lopez, R E, *Book review by* Singer, H J, **422**, 21
solar supergranulation, Wave-like properties of solar supergranulation, *Letter to Nature*, Gizon, L, Duvall Jr, T L, Schou, J, **421**, 43
  Erratum: Wave-like properties of solar supergranulation, *Letter to Nature*, Gizon, L, Duvall Jr, T L, Schou, J, **421**, 764
solar surgery, Fibre optics: Surgery by sunlight on live animals, *Brief communication*, Gordon, J M, Feuermann, D, Huleihil, M, Mizrahi, S, Shaco-Levy, R, **424**, 510
Solar System, Solar-System researchers in the dark as probe signs off, *News in brief*, **422**, 8
  Solar system: Close encounter of the cometary kind, *News and views*, Wright, A, **422**, 130
  Worlds apart, *News feature*, Falk, D, **422**, 659
  A questioning of timing, *News and views*, Alexander, C, **423**, 691
  Contemporaneous formation of chondrules and refractory inclusions in the early Solar System, *Letter to Nature*, Itoh, S, Yurimoto, H, **423**, 728
  Cosmochemistry: Inside the cosmic blender, *News and views*, Halliday, A N, **425**, 137
  Efficient mixing of the solar nebula from uniform Mo isotopic composition of meteorites, *Letter to Nature*, Becker, H, Walker, R J, **425**, 152
  Over the edge?, *News and views*, Fisk, L A, **426**, 21
  Voyager 1 excited the solar wind at a distance of ~85 AU from the Sun, *Letter to Nature*, Krimigis, S M, Decker, R B, Hill, M E, Armstrong, T P, Gloeckler, G, Hamilton, D C, Lanxerotti, L J, Roelof, E C, **426**, 45
  Planetary science: Conveyed to the Kuiper belt, *News and views*, Gomes, R, **426**, 393
Solar System, evolution, Structure and thermal history of the H-chondrite parent asteroid revealed by thermochronometry, *Letter to Nature*, Trieloff, M, Jessberger, E K, Herrwerth, I, Hopp, J, Flénl, C, Ghelis, M, Bourot-Denise, M, Pellas, P, **422**, 502
Solar Terrestrial Relations Observatory (**STEREO**), US on sidelines as China prepares for satellite launch, *News*, Reichhardt, T, **426**, 375
solar wind, Journey From the Center of the Sun, Zirker, J B, *Book review by* Klimchuk, J A, **421**, 894
  Voyager 1 excited the solar wind at a distance of ~85 AU from the Sun, *Letter to Nature*, Krimigis, S M, Decker, R B, Hill, M E, Armstrong, T P, Gloeckler, G, Hamilton, D C, Lanxerotti, L J, Roelof, E C, **426**, 45
  Continuous magnetic reconnection at Earth's magnetopause, *Letter to Nature*, Frey, H U, Phan, T D, Fuselier, S A, Mende, S B, **426**, 533
solid-state physics, Solid-state physics: Drawing quantum circuitry, *News and views*, Ashoori, R, **424**, 730
solitary chemosensory cells, Sensory transduction: Not to be sneezed at, *News and views*, Wood, H, **424**, 740
solitons, Observation of two-dimensional discrete solitons in optically induced nonlinear photonic lattices, *Letter to Nature*, Fleischer, J W, Segev, M, Efremidis, N K, Christodoulides, D N, **422**, 147
  Experimental observation of symmetry-breaking nonlinear modes in an active ring, *Letter to Nature*, Demokritov, S O, Serga, A A, Demidov, V E, Hillebrands, B, Kostylev, M P, Kalinikos, B A, **426**, 159
  Solitary wave behaviour of sand dunes, *Brief communication*, Schwammle, V, Herrmann, H J, **426**, 619
solutions, Universal alignment of hydrogen levels in semiconductors, insulators and solutions, *Letter to Nature*, Van de Walle, C G, Neugebauer, J, **423**, 626
somatic cell nuclear transfer, Disease insights from stem cells, *Opinion*, **422**, 787
somatosensory input, Somatosensory basis of speech production, *Letter to Nature*, Tremblay, S, Shiller, D M, Ostry, D J, **423**, 866
somatosensory systems, Inhibitory feedback required for network oscillatory responses to communication but not prey stimuli, *Letter to Nature*, Doiron, B, Chacron, M J, Maler, L, Longtin, A, Bastian, J, **421**, 539
somites, Periodic Notch inhibition by Lunatic Fringe underlies the chick segmentation clock, *Letter to Nature*, Dale, J K, Maroto, M, Dequeant, M L, Malapert, P, McGrew, M, Pourquie, O, **421**, 275
sonar, Noise protests drown out whale sonar tests, *News in brief*, **421**, 202
  Echolocation: Volume control, *News and views*, Tromas, A, **423**, 815
  Automatic gain control in the echolocation system of dolphins, *Letter to Nature*, Au, W W L, Benoit-Bird, K J, **423**, 861
  Bottlenose dolphins perceive object features through echolocation, *Letter to Nature*, Harley, H E, Putman, E A, Roitblat, H L, **424**, 667
  Court ruling sounds note of caution for sonar system, *News*, Dalton, R, **425**, 6
  Scientists split over regulations on sonar use, *News*, Dalton, R, **425**, 549
songbirds, Erratum: An ultra-sparse code underlies the generation of neural sequences in a songbird, *Letter to Nature*, Hahnloser, R H R, Kozhevnikov, A A, Fee, M S, **421**, 294
  Avian metabolism: Costs of migration in free-flying songbirds, *Brief communication*, Wikelski, M, Tarlow, E M, Raim, A, Diehl, R H, Larkin, R P, Visser, G H, **423**, 704
Sonic hedghog, Hedgehog signalling in the mouse requires intraflagellar transport proteins, *Letter to Nature*, Huangfu, D, Liu, A, Rakeman, A S, Murcia, N S, Miswander, L, Anderson, K V, **426**, 83
sonochemistry, Controlled vesicle deformation and lysis by single oscillating bubbles, *Letter to Nature*, Marmottant, P, Hilgenfeldt, S, **423**, 153
sonocytology, Dying cells dragged screaming under the microscope, *News*, Zandonella, C, **423**, 106
sonoluminescence, Controlled vesicle deformation and lysis by single oscillating bubbles, *Letter to Nature*, Marmottant, P, Hilgenfeldt, S, **423**, 153
sonoporation, Controlled vesicle deformation and lysis by single oscillating bubbles, *Letter to Nature*, Marmottant, P, Hilgenfeldt, S, **423**, 153
SopE protein, Microbiology: Destructive approach, *News and views*, Tromans, A, **426**, 23
sorting, Microfluidic sorting in an optical lattice, *Letter to Nature*, MacDonald, M P, Spalding, G C, Dholakia, K, **426**, 421
Sosa, Sammy, Physicists doubt that 'corking; could help baseball's big hitter, *News*, Brumfiel, G, **423**, 674
sound location, Prediction of auditory spatial acuity from neural images on the owl's auditory space map, *Letter to Nature*, Bala, A D S, Spitzer, M W, Takahashi, T T, **424**, 771
South Africa, Human Sciences Research Council, Genetics to unlock secrets of our African past, *News*, Cherry, M, **422**, 460
South America, endangered species, The law of the jungle, *News feature*, Whitfield, J, **421**, 8
South Atlantic Anomaly, Space travel: Dual origins of light flashes seen in space, *Brief communication*, Casolino, M, Bidoli, V, Moreelli, A, Narici, L, De Pascale, M P, Picozza, P, Reali, E, Sparvoli, R, Mazzenga, G, Ricci, M, Spillantini, P, Boezio, M, Bonvicini, V, Vacchi, A, Zampa, N, Castellini, G, Sannita, W G, Carlson, P, Galper, A, Korotkov, M, Popov, A, Vavilov, N, Avdeev, S, Fuglesang, C, **422**, 680
South Korea, South Korea accused of leaving birds out to die in Wetland project, *News in brief*, **424**, 988
Southern California Integrated GPS Network, Earth science: High expectations, *News and views*, Clarke, T, **424**, 143
Southern Ocean, Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation, *Letter to Nature*, Knorr, G, Lohmann, G, **424**, 532
Southern Oscillation, Floods of record, *News and views*, Paola, C, **425**, 459
  Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation, *Letter to Nature*, Aalto, R, Maurice-Bourgoin, L, Dunne, T, Montgomery, D R, Nittrouer, C A, Guyot, J-L, **425**, 493
southwest Indian ridge, A discontinuity in mantle composition beneath the southwest Indian ridge, *Letter to Nature*, Meyzen, C M, Toplis, M J, Humler, E, Ludden, J N, Mevel, C, **421**, 731
***Sox2* gene**, Developmental biology: Decoding stem cells' powers, *News and views*, Pearson, H, **421**, 228
SpA protein, Immunology: Assisted suicide for B cells, *News and views*, Arnheim, L, **423**, 238
space exploration, Comet mission hangs in the balance, *News*, Adam, D, Butler, D, **421**, 102
  Safety doubts force rethink of embattled comet mission, *News*, Butler, D, **421**, 198
  Fair play for trial balloons, *Editorial*, **421**, 299
  Failed mission launch prompts ESA to reconsider comet target, *News*, Butler, D, **421**, 301
  Up, up and away, *News feature*, Reichhardt, T, **421**, 308
  Where now for NASA?, *Editorial*, **421**, 559
  Columbia explosion may trigger fatal delays for space station, *News*, Reichhardt, T, **421**, 561
  NASA pins hopes on nuclear-powered orbiter, *News*, Reichhardt, T, **421**, 881
  Space: next step is an International Moon Base, *Correspondence*, Crawford, I, **422**, 373
  Space: telescopes reveal the way forward, *Correspondence*, Angel, R, **422**, 373
  Infrared observatory prepares for lift-off, *News*, Reichhardt, T, **422**, 549
  NASA homes in on sites for Mars exploration, *News*, Reichhardt, T, **422**, 653
  Worlds apart, *News feature*, Falk, D, **422**, 659
  France purges space programme in bid to survive budget crisis, *News*, Butler, D, **423**, 103
  Asteroid probe to test technologies, *News*, Cyranoski, D, **423**, 212
  Spiralling costs dog comet mission, *News*, Butler, D, **423**, 372
  NASA aims high with orbital transport system, *News*, Reichhardt, T, **423**, 470
  Mars attracts!, *News feature*, Giles, J, **423**, 473

- Fantastic journeys, *News feature*, **423**, 474
- Are you on board?, *News feature*, Butler, D, **423**, 476
- The comeback kids, *News feature*, Reichhardt, T, **423**, 477
- First satellite for sale, one careful owner, *News in brief*, **423**, 677
- Astronomers try to save Mars probe, *News*, Cyranoski, D, **424**, 6
- Science shunted to the sidelines as EU sets out its space agenda, *News*, Butler, D, **424**, 115
- India launches plan for mission to map the moon, *News*, Jayaraman, K S, **424**, 985
- Compass test helps solar sailors reach for the stars, *News in brief*, **425**, 114
- Flight veteran embraces NASA's science wing, *News*, Reichhardt, T, **425**, 229
- Galileo gears up for swansong as crash-landing looms, *News*, Moore, J, **425**, 229
- China plays cards close to its chest over manned space shot, *News*, Cyranoski, D, **425**, 438
- Nigeria joins the space age with first satellite, *News in brief*, **425**, 442
- India's mission to the Moon is worthwhile, *Correspondence*, Narasimba, R, **425**, 763
- US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887
- Over the edge?, *News and views*, Fisk, L A, **426**, 21
- Voyager 1 excited the solar wind at a distance of ~85 AU from the Sun, *Letter to Nature*, Krimigis, S M, Decker, R B, Hill, M E, Armstrong, T P, Gloeckler, G, Hamilton, D C, Lanzerotti, L J, Roelof, E C, **426**, 45
- Enhancements of energetic particles near the heliospheric termination shock, *Letter to Nature*, McDonald, F B, Stone, E C, Cummings, A C, Heikkila, B, Lal, N, Webber, W R, **426**, 48
- Islands make waves for Chinese space base, *News in brief*, **426**, 220
- US on sidelines as China prepares for satellite launch, *News*, Reichhardt, T, **426**, 375
- Lunar dreams, again, *Opinion*, **426**, 589
- Japan sees red-planet mission end in failure, *News in brief*, **426**, 747
- **Space Infrared Telescope Facility**, Infrared observatory prepares for lift-off, *News*, Reichhardt, T, **422**, 549
  - Rocket-engine defect delays observatory launch, *News in brief*, **423**, 8
- **space science**, The Century of Space Science, Bleeker, J A, Geiss, J, Huber, M C E, *Book review by* Hodge, P, **421**, 316
- **Space Shuttle**, School space students take ground control, *News in brief*, **421**, 307
  - Where now for NASA?, *Editorial*, **421**, 559
  - Columbia explosion may trigger fatal delays for space station, *News*, Reichhardt, T, **421**, 561
  - NASA sets up dual probes into shuttle accident, *News*, Brumfiel, G, **421**, 561
  - Science had rare leading role in ill-started shuttle mission, *News*, Adam, D, **421**, 562
  - Shuttle inquiry to piece disaster together from the ground up, *News*, Butler, D, **421**, 677
  - On wings and a prayer, *News feature*, Brumfiel, G, **421**, 684
  - Columbia researchers sift through reclaimed results, *News in brief*, **421**, 882
  - NASA intensifies probe into Columbia failure, *News*, Reichhardt, T, **422**, 249
  - Columbia data hint at wing damage during launch, *News in brief*, **422**, 462
  - Columbia inquiry homes in on faulty foam, *News*, Reichhardt, T, **423**, 7
  - Shuttle's wonder worms make it back to NASA in one piece, *News in brief*, **423**, 108
  - Engineers' concerns to be heeded as NASA aims for safer shuttle, *News in brief*, **423**, 794
  - NASA to set up safety centre in wake of shuttle crash, *News in brief*, **424**, 362
  - NASA braced for culture shock as Columbia inquiry reaches verdict, *News*, Reichhardt, T, **424**, 863
  - Honesty and denial at NASA, *Opinion*, **425**, 1
  - Columbia inquiry prompts White House strategy review, *News*, Reichhardt, T, **425**, 4
  - NASA: Trawling through the wreckage, *News feature*, Reichhardt, T, **426**, 754
- **space sounds**, Music: Sun Rings, Riley, T, *Book review by* Mossinger, J C, **422**, 565
- **space travel**, Space travel: Dual origins of light flashes seen in space, *Brief communication*, Casolino, M, Bidoli, V, Moreelli, A, Narici, L, De Pascale, M P, Picozza, P, Reali, E, Sparvoli, R, Mazzenga, G, Ricci, M, Spillantini, P, Boezio, M, Bonvicini, V, Vacchi, A, Zampa, N, Castellini, G, Sannita, W G, Carlson, P, Galper, A, Korotkov, M, Popov, A, Vavilov, N, Avdeev, S, Fuglesang, C, **422**, 680
- **space weather**, Storms from the Sun: The Emerging Science of Space Weather, Carlowicz, M J, Lopez, R E, *Book review by* Singer, H J, **422**, 21
- **space-time dimensions**, Upper limits to submillimetre-range forces from extra space-time dimensions, *Letter to Nature*, Long, J C, Chan, H W, Churnside, A B, Gulbis, E A, Varney, M C M, Price, J C, **421**, 922
- **spacecraft**, Fair play for trial balloons, *Editorial*, **421**, 299
  - Where now for NASA?, *Editorial*, **421**, 559
  - Columbia explosion may trigger fatal delays for space station, *News*, Reichhardt, T, **421**, 561
  - On wings and a prayer, *News feature*, Brumfiel, G, **421**, 684
  - NASA seeks inspiration from microscopic views of life, *News*, Knight, J, **421**, 878
  - NASA pins hopes on nuclear-powered orbiter, *News*, Reichhardt, T, **421**, 881
  - Columbia researchers sift through reclaimed results, *News in brief*, **421**, 882
  - NASA decides that three's a crowd on space station, *News in brief*, **422**, 8
  - Solar-System researchers in the dark as probe signs off, *News in brief*, **422**, 8
  - NASA intensifies probe into Columbia failure, *News*, Reichhardt, T, **422**, 249
  - Columbia data hint at wing damage during launch, *News in brief*, **422**, 462
  - Cold ions in the hot plasma sheet of Earth's magnetotail, *Letter to Nature*, Seki, K, Hirahara, M, Hoshino, M, Terasawa, T, Elphic, R C, Saito, Y, Mukai, T, Hayakawa, H, Kojima, H, Matsumoto, H, **422**, 589
  - Columbia inquiry homes in on faulty foam, *News*, Reichhardt, T, **423**, 7
  - Shuttle's wonder worms make it back to NASA in one piece, *News in brief*, **423**, 108
  - Fantastic journeys, *News feature*, **423**, 474
  - Are you on board?, *News feature*, Butler, D, **423**, 476
  - The comeback kids, *News feature*, Reichhardt, T, **423**, 477
  - First satellite for sale, one careful owner, *News in brief*, **423**, 677
  - Engineers' concerns to be heeded as NASA aims for safer shuttle, *News in brief*, **423**, 794
  - Astronomers try to save Mars probe, *News*, Cyranoski, D, **424**, 6
  - Japan joins Europe's bid to get Bepi Colombo to Mercury, *News in brief*, **424**, 8
  - Science shunted to the sidelines as EU sets out its space agenda, *News*, Butler, D, **424**, 115
  - Arctic rockets give glimpse of the atmosphere's top layers, *News*, Schiermeier, Q, **424**, 243
  - NASA to set up safety centre in wake of shuttle crash, *News in brief*, **424**, 362
  - Compass test helps solar sailors reach for the stars, *News in brief*, **425**, 114
  - Oops! Sorry we've dropped your satellite, *News in brief*, **425**, 230
  - A test of general relativity using radio links with the Cassini spacecraft, *Letter to Nature*, Bertotti, B, Iess, L, Tortora, P, **425**, 374
  - China plays cards close to its chest over manned space shot, *News*, Cyranoski, D, **425**, 438
  - Ion-powered probe set for year-long Moon trek, *News*, Brumfiel, G, **425**, 438
  - Nigeria joins the space age with first satellite, *News in brief*, **425**, 442
  - Space station light show sparks aurora riddle, *News*, Reichhardt, T, **425**, 888
  - NASA turns sub firm in nuclear power play, *News in brief*, **425**, 892
  - Over the edge?, *News and views*, Fisk, L A, **426**, 21
  - Voyager 1 excited the solar wind at a distance of ~85 AU from the Sun, *Letter to Nature*, Krimigis, S M, Decker, R B, Hill, M E, Armstrong, T P, Gloeckler, G, Hamilton, D C, Lanzerotti, L J, Roelof, E C, **426**, 45
  - Enhancements of energetic particles near the heliospheric termination shock, *Letter to Nature*, McDonald, F B, Stone, E C, Cummings, A C, Heikkila, B, Lal, N, Webber, W R, **426**, 48
  - Casting light on mystery of auroral flashes, *Correspondence*, Freeman, L, **426**, 227
  - Leaving Earth: Space Stations, Rival Superpowers, and the Quest for Interplanetary Travel, Zimmerman, R, *Book review by* Siddiqi, A A, **426**, 498
  - NASA: Trawling through the wreckage, *News feature*, Reichhardt, T, **426**, 754
  - 1904 and all that, *Commentary*, Heilbron, J L, Bynum, W F, **426**, 761
- **SpaceDev**, Satellite mission star buy in online auction, *News in brief*, **426**, 220
- **Spain**, Spanish oil company has Prestige clean-up operation in the bag, *News in brief*, **422**, 552
  - US support for Spain triggers unease over fusion project, *News*, Brumfiel, G, Butler, D, **423**, 211
  - Spain in the frame for Europe's bid to host fusion reactor, *News in brief*, **424**, 606
- **Spain, CSIC**, Head of Spanish lab network quits over lack of funds, *News*, Salomone, M, **421**, 462
- **Spain, research funding**, Head of Spanish lab network quits over lack of funds, *News*, Salomone, M, **421**, 462
- **spallation**, Fading support ends Europe's dreams of neutron supremacy, *News*, Schiermeier, Q, **421**, 563
  - Britain shuts door on extra neutron source, *News in brief*, **422**, 654
  - Britain takes fresh look at spallation source, *News in brief*, **424**, 244
- **spatial attention**, Sustained division of the attentional spotlight, *Letter to Nature*, Müller, M M, Malinowski, P, Gruber, T, Hillyard, S A, **424**, 309
  - Corrigendum: Sustained division of the attentional spotlight, *Letter to Nature*, Muller, M M, Malinowski, P, Gruber, T, Hillyard, S A, **426**, 584
- **spatial discrimination**, Prediction of auditory spatial acuity from neural images on the owl's auditory space map, *Letter to Nature*, Bala, A D S, Spitzer, M W, Takahashi, T T, **424**, 771
- **spatial perception**, Optimal transsaccadic integration explains distorted spatial perception, *Letter to Nature*, Niemeler, M, Crawford, J D, Tweed, D B, **422**, 76
  - Motion-induced spatial conflict, *Letter to Nature*, Arnold, D H, Johnston, A, **425**, 181
  - Cellular networks underlying human spatial navigation, *Letter to Nature*, Ekstrom, A D, Kahana, M J, Caplan, J B, Fields, T A, Isham, E A, Newman, E L, Fried, I, **425**, 184
- **special effects**, Incredible! Hulk lab is nothing like reality, *News in brief*, **423**, 794
- **speciation**, Speciation along environmental gradients, *Letter to Nature*, Doebeli, M, Dieckmann, U, **421**, 259
  - Speciation reversal, *News and views*, Wolfe, K, **422**, 25
  - Engineering evolution to study speciation in yeasts, *Letter to Nature*, Delneri, D, Colson, I, Grammenoudi, S, Roberts, I N, Louis, E J, Oliver, S G, **422**, 68
  - Evolutionary biology: Fractious phylogenies, *News and views*, Kocher, T D, **423**, 489
  - Evolutionary biology: Genes to make a new species, *News and views*, Noor, M A F, **423**, 699
  - Adaptive evolution drives divergence of a hybrid inviability gene between two species of *Drosophila*, *Article*, Presgraves, D C, Balagopalan, L, Abmayr, S M, Orr, H A, **423**, 715
  - Speciation by host switch in brood parasitic indigobirds, *Letter to Nature*, Sorenson, M D, Sefc, K M, Payne, R B, **424**, 928
  - Single-gene speciation by left-right reversal, *Brief communication*, Ueshima, R, Asami, T, **425**, 679
- **species abundance**, Explaining the excess of rare species in natural species abundance distributions, *Letter to Nature*, Magurran, A E, Henderson, P A, **422**, 714
  - A test of the unified neutral theory of biodiversity, *Letter to Nature*, McGill, B J, **422**, 881
  - Ecology: Tail of death and resurrection, *News and views*, Harte, J, **424**, 1006
  - Neutral theory and relative species abundance in ecology, *Letter to Nature*, Volkov, I, Banavar, J R, Hubbell, S P, Martian, A, **424**, 1035
- **species dispersion**, Niche lability in the evolution of a Caribbean lizard community, *Letter to Nature*, Losos, J B, Leal, M, Glor, R E, de Queiroz, K, Hertz, P E, Rodriguez Schettino, L, Lara, A C, Jackman, T R, Larson, A, **424**, 542
- **species distribution**, A globally coherent fingerprint of climate change impacts across natural systems, *Article*, Parmesan, C, Yohe, G, **421**, 37
  - Evolutionary biology: Species, more or less, *News and views*, Whitfield, J, **422**, 33
  - Global change: The heat on Lake Tanganyika, *News and views*, Verschuren, D, **424**, 731
  - Predicting distributions of known and unknown reptile species in Madagascar, *Letter to Nature*, Raxworthy, C J, Martinez-Meyer, E, Horning, N, Nussbaum, R A, Schneider, G E, Ortega-Huerta, M A, Peterson, A T, **426**, 837
- **species diversity**, Foundations of Tropical Forest Biology: Classic Papers with Commentaries, Chazdon, R L, Whitmore, T C, *Book review by* Zagt, R J, **421**, 20
  - Molecular systematics: Counting angels with DNA, *News and views*, Blaxter, M, **421**, 122
  - Burning issues, *News feature*, Dennis, C, **421**, 204
  - Switzerland's role as a hotspot of type specimens, *Correspondence*, Agosti, D, **421**, 889
  - Ecology: The how and why of biodiversity, *News and views*, Gaston, K J, **421**, 900
  - Dynamic diversity, *Concepts*, Knapp, S, **422**, 475
  - A test of the unified neutral theory of biodiversity, *Letter to Nature*, McGill, B J, ecology, **422**, 881
  - Unbalanced view of a dynamic world, *Correspondence*, Martin, G, **423**, 115
  - Transcription regulation and animal diversity, *Review article*, Levine, M, Tjian, R, **424**, 147
  - Development rate: Modelling developmental time and temperature, *Brief communication*, Rombough, P, **424**, 268
  - Productivity-biodiversity relationships depend on the history of community assembly, *Letter to Nature*, Fukami, T, Morin, P J, **424**, 423
  - Developmental biology: Creating diversity, *News and views*, Heemels, M-T, **424**, 1011
  - High diversity of unknown picorna-like viruses in the sea, *Letter to Nature*, Culley, A I, Lang, A S, Suttle, C A, **424**, 1054
  - Biologists seek havens for species at risk, *News*, Dalton, R, **425**, 754
- **species interactions**, Species interactions can explain Taylor's power law for ecological time series, *Correspondence*, Kilpatrick, A M, Ives, A R, **422**, 65
- **species radiation**, Evolution: Opportunity versus innovation, *News and views*, Harvey, P H, Purvis, A, **425**, 676
- **species variation**, Feature: The mosaic that is our genome, *Feature*, Paabo, S, **421**, 409
- **speech**, Somatosensory basis of speech production, *Letter to Nature*, Tremblay, S, Shiller, D M, Ostry, D J, **423**, 866
- **spelling**, Phosphorus: time for us to oust bad spelling, *Correspondence*, Hairston Jr, N, **426**, 119
- **sperm-mediated gene transfer**, Piglets add some colour to transgenic story, *News*, Nosengo, N, **424**, 604
- **spermatozoa**, Palaeontology: Swimming sperm in an extinct Gondwanan plant, *Brief communication*, Nishida, H, Pigg, K B, Rigby, J F, **422**, 396
  - Developmental biology: The trouble with the sex body, *News and views*, Lincoln, T, **422**, 677
  - Synthetic sex cells, *News feature*, Dennis, C, **424**, 364
  - Evolutionary biology: Scramble for the eggs, *News and views*, Gage, M J G, **426**, 22
  - Sophisticated sperm allocation in male fowl, *Letter to Nature*, Pizzari, T, Cornwallis, C K, Levile, H, Jakobsson, S, Birkhead, T R, **426**, 70

sphalerite, Mineralogy: Oresome microbes, *News and views*, Ball, P, **425**, 573

sphenodontians, Large Cretaceous sphenodontian from Patagonia provides insight into lepidosaur evolution in Gondwana, *Letter to Nature*, Apesteguia, S, Novas, F E, **425**, 609

spheres, packing, Mathematics: The 24-dimensional greengrocer, *News and views*, Stewart, I, **424**, 895

sphingolipids, Sphingolipid signalling in *Arabidopsis* guard cells involves heterotrimeric G proteins, *Letter to Nature*, Coursol, S, Fan, L-M, Le Stunff, H, Spiegel, S, Gilroy, S, Assmann, S M, **423**, 651

sphingomyelin, Molecular machinery for non-vesicular trafficking of ceramide, *Article*, Hanada, K, Kumagai, K, Yasuda, S, Miura, Y, Kawano, M, Fukasawa, M, Nishijima, M, **426**, 803

spicules, Fibre-optical features of a glass sponge, *Brief communication*, Sundar, V C, Yablon, A D, Grazul, J L, Ilan, M, Aizenberg, J, **424**, 899

spiders, Pollinator attraction: Crab-spiders manipulate flower signals, *Brief communication*, Heiling, A M, Herberstein, M E, Chittka, L, **421**, 334
  Involvement of *Notch* and *Delta* genes in spider segmentation, *Letter to Nature*, Stollewerk, A, Schoppmeier, M, Damen, W G M, **423**, 863
  Mechanism of silk processing in insects and spiders, *Letter to Nature*, Jin, H-J, Kaplan, D L, **424**, 1057
  Arachnology: Scavenging by brown recluse spiders, *Brief communication*, Sandidge, J S, **426**, 30
  Spider Webs and Silks: tracing Evolution from Molecules to Genes to Phenotypes, Craig, C L, *Book review by* Vollrath, F, **426**, 121

spiders, diet, Ecology: Eaten history, *News and views*, Whitfield, J, **426**, 514

spiders, silk, Palaeontology: Spider-web silk from Early Cretaceous, *Brief communication*, Zschokke, S, **424**, 636
  Spider Webs and Silks: tracing Evolution from Molecules to Genes to Phenotypes, Craig, C L, *Book review by* Vollrath, F, **426**, 121

spin entropy, Spin entropy as the likely source of enhanced thermopower in $Na_xCo_2O_4$, *Letter to Nature*, Wang, Y, Rogado, N S, Cava, R J, Ong, N P, **423**, 425

spin transfer, Microwave oscillations of a nanomagnet driven by a spin-polarized current, *Letter to Nature*, Kiselev, S I, Sankey, J C, Krivorotov, I N, Emley, N C, Schoelkopf, R J, Buhrman, R A, Ralph, D C, **425**, 380

spin vectors, The vector alignments of asteroid spins by thermal torques, *Article*, Vokrouhlicky, D, Nesvorny, D, Bottke, W F, **425**, 147

spin-exchange relaxation-free (SERF) atomic magnetometer, Atomic physics: A new spin on magnetometry, *News and views*, Budker, D, **422**, 574
  A subfemtotesla multichannel tomic magnetometer, *Letter to Nature*, Kominis, I K, Kornack, T W, Allred, J C, Romalis, M V, **422**, 596

spinal cord, Neurobiology: Spine conducts hip-hop, *News and views*, Pearson, H, **422**, 393
  Evolutionary biology: Body plans and simple brains, *News and views*, Lacalli, T, **424**, 263
  $P2X_4$ receptors induced in spinal microglia gate tactile allodynia after nerve injury, *Letter to Nature*, Tsuda, M, Shigemoto-Mogami, Y, Koizumi, S, Mizokoshi, A, Kohsaka, S, Salter, M W, Inoue, K, **424**, 778

spinal injury, In search of a miracle, *News feature*, Pearson, H, **423**, 112

spinal nociceptive pathways, Trans-synaptic shift in anion gradient in spinal lamina I neurons as a mechanism of neuropathic pain, *Letter to Nature*, Coull, J A M, Boudreau, D, Bachand, K, Prescott, S A, Nault, F, Sik, A, De Koninck, P, De Koninck, Y, **424**, 938

spine, Spontaneous muscle twitches during sleep guide spinal self-organization, *Letter to Nature*, Petersson, P, Waldenstrom, A, Fahraeus, C, Schouenborg, J, **424**, 72

spines, Neurobiology: A thorny issue, *News and views*, Seeburg, P H, Osten, P, **424**, 627

Spinoza, Baruch, Looking for Spinoza: Joy, Sorrow and the Feeling Brain, Damasio, A, *Book review by* Dolan, R, **421**, 893

spintronics, Applied physics: Spintronics gets a magnetic flute, *News and views*, Sun, J, **425**, 359

spleen, Positioning of follicular dendritic cells within the spleen controls prion neuroinvasion, *Letter to Nature*, Prinz, M, Heikenwalder, M, Junt, T, Schwarz, P, Glatzel, M, Heppner, F L, Fu, Y-X, Lipp, M, Aguzzi, A, **425**, 957

sponges, Systema Porifera: A Guide to the Classification of Sponges, Hooper, J N A, van Soest, R W M, *Book review by* Berry, L, **421**, 791
  Fibre-optical features of a glass sponge, *Brief communication*, Sundar, V C, Yablon, A D, Grazul, J L, Ilan, M, Aizenberg, J, **424**, 899

spongiform encephalopathies, Spongiform encephalopathies: Propagating warped prions, *News and views*, Pearson, H, **422**, 677

sponsorship, Travel grants available for genetics congress, *Correspondence*, Griffiths, A J F, **421**, 313
  Authorities should note sponsorship-results link, *Correspondence*, Criscione, L, **424**, 369

spoonbills, Avian botulism clips wings of Taiwanese spoonbills, *News in brief*, **421**, 202

sport, Art: A leap into the future, Rockman, A, *Book review*, **423**, 19
  A career in sport? I'd rather be on the bench, *News in brief*, **423**, 374
  Physicists doubt that 'corking; could help baseball's big hitter, *News*, Brumfiel, G, **423**, 674
  Drugs bust reveals athletes' secret steroid, *News*, Knight, J, **425**, 752
  No dope, *News feature*, Knight, J, **426**, 114
  Psychophysics: How fielders arrive in time to catch the ball, *Brief communication*, McLeod, P, Reed, N, Dienes, Z, **426**, 244

SPOT 4 satellite, Earth maps put environment treaties into perspective, *News in brief*, **426**, 489

Spradling, Micah, Student cries foul over evolutionary snub, *News in brief*, **421**, 566

springtails, Ecology: Eaten history, *News and views*, Whitfield, J, **426**, 514

SptP protein, Microbial pathogenesis and cytoskeletal function, *Insight review article*, Gruenheid, S, Finlay, B B, **422**, 775

Sputnik 1 satellite, First satellite for sale, one careful owner, *News in brief*, **423**, 677

Square Kilometer Array, Radio telescope plan gets inaugural chief, *News in brief*, **421**, 103

SRK, Sex and self-denial, *News and views*, Newbigin, E, Vierstra, R D, **423**, 229

SRS2, DNA helicase Srs2 disrupts the Rad51 presynaptic filament, *Letter to Nature*, Krejci, L, Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P, **423**, 305
  The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments, *Letter to Nature*, Veaute, X, Jeusset, J, Soustelle, C, Kowalczykowski, S C, Le Cam, E, Fabre, F, **423**, 309

Stahl, Philip, Women's career award crosses gender divide, *News in brief*, **424**, 362

stainless steel, Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Meng, Q, Frankel, G S, Colijn, H O, Goss, S H, **424**, 389
  Reply: Metallurgy: Stainless-steel corrosion and MnS inclusions, *Brief communication*, Ryan, M P, Williams, D E, Chater, R J, Hutton, B M, McPhail, D S, **424**, 390

stalagmites, Precise dating of Dansgaard-Oeschger climate oscillations in western Europe from stalagmite data, *Letter to Nature*, Genty, D, Blamart, D, Ouahdi, R, Gilmour, M, Baker, A, Jouzel, J, Van-Exter, S, **421**, 833

stalked crinoids, Developmental biology: A larval revelation, *News and views*, Lacalli, T, **421**, 120
  Larval stages of a living sea lily (stalked crinoid echinoderm), *Letter to Nature*, Nakano, H, Hibino, T, Oji, T, Hara, Y, Amemiya, S, **421**, 158

Stanley, H E, Seeking connections — H E Stanley, *Lifelines*, **422**, 819

staphylocoagulase, Staphylocoagulase is a prototype for the mechanism of cofactor-induced zymogen activation, *Letter to Nature*, Friedrich, R, Panizzi, P, Fuentes-Prior, P, Richter, K, Verhamme, I, Anderson, P J, Kawabata, S-I, Huber, R, Bode, W, Bock, P E, **425**, 535

Staphylococcus aureus, Biologists deploy database to quash drug-resistant bacteria, *News*, Clarke, T, **422**, 791
  Pathogenic bacteria attach to human fibronectin through a tandem β-zipper, *Letter to Nature*, Schwarz-Linek, U, Werner, J M, Pickford, A R, Gurusiddappa, S, Kim, J H, Pilka, E S, Briggs, J A G, Gough, T S, Höök, M, Campbell, I D, Potts, J R, **423**, 177
  Immunology: Assisted suicide for B cells, *News and views*, Arnheim, L, **423**, 238
  Microbiology: Aspirin bites at bugs, *News and views*, Pearson, H, **424**, 507
  Staphylocoagulase is a prototype for the mechanism of cofactor-induced zymogen activation, *Letter to Nature*, Friedrich, R, Panizzi, P, Fuentes-Prior, P, Richter, K, Verhamme, I, Anderson, P J, Kawabata, S-I, Huber, R, Bode, W, Bock, P E, **425**, 535

starbursts, The essential signature of a massive starburst in a distant quasar, *Letter to Nature*, Solomon, P, Vanden Bout, P, Carilli, C, Guelin, M, **426**, 636

stars, Astronomy: Star formation out at the edges, *News and views*, Clarke, T, **421**, 493
  An energetic stellar outburst accompanied by circumstellar light echoes, *Letter to Nature*, Bond, H E, Henden, A, Levay, Z G, Panagia, N, Sparks, W B, Starrfield, S, Wagner, R M, Corradi, R L M, Munari, U, **422**, 405
  Astronomy: Telling the tale of the first stars, *News and views*, Beers, T C, **422**, 825
  Astrophysics: How did the metals in a giant star originate, *Brief communication*, Bonifacio, P, Limongi, M, Chieffi, A, **422**, 834
  Low-mass relics of early star formation, *Letter to Nature*, Schneider, R, Ferrara, A, Salvaterra, R, Omukai, K, Bromm, V, **422**, 869
  A class of compact dwarf galaxies from disruptive processes in galaxy clusters, *Letter to Nature*, Drinkwater, M J, Gregg, M D, Hilker, M, Bekki, K, Couch, W J, Ferguson, H C, Jones, J B, Phillips, S, **423**, 519
  The supernova connection, *News and views*, Meszaros, P, **423**, 809
  Structure in the early afterglow light curve of the γ-ray burst of 29 March 2003, *Letter to Nature*, Uemura, M, Kato, T, Ishioka, R, Yamaoka, H, Monard, B, Nogami, D, Maehara, H, Sugie, A, Takahashi, S, **423**, 843
  The bright optical afterglow of the nearby γ-ray burst of 29 March 2003, *Letter to Nature*, Price, P A, Fox, D W, Kulkarni, S R, Peterson, B A, Schmidt, B P, Soderberg, A M, Yost, S A, Berger, E, Djorgovski, S G, Frail, D A, Harrison, F A, Sari, R, Blain, A W, Chapman, S C, **423**, 844
  A very energetic supernova associated with the γ-ray burst of 29 March 2003, *Letter to Nature*, Hjorth, J, Sollerman, J, Moller, P, Fynbo, J P U, Woosley, S E, Kouveliotou, C, Tanvir, N R, Greiner, J, Andersen, M I, Castro-Tirado, A J, Castro Ceron, J M, Fruchter, A S, Gorosabel, J, Jakobsson, P, Kaper, L, Klose, S, Masetti, N, Pedersen, H, Pedersen, K, Plan, E, Palazzi, E, Rhoads, J E, Rol, E, van den Heuvel, E P J, Vreeswijk, P M, Watson, D, Wijers, R A M J, **423**, 847
  Astrophysics: Star spins flat out, *News and views*, Ball, P, **423**, 935
  An asymptotic-giant-branch star in the progenitor system of a type la supernova, *Letter to Nature*, Hamuy, M, Phillips, M M, Suntzeff, N B, Maza, J, González, L E, Roth M, Krisciunas, K, Morrell, N, Green, E M, Persson, S E, McCarthy, P J, **424**, 651
  Astronomy: The mystery companion, *News and views*, Soker, N, **426**, 236
  A collimated, high-speed outflow from the dying star V Hydrae, *Letter to Nature*, Sahai, R, Morris, M, Knapp, G R, Young, K, Barnbaum, C, **426**, 261

stars, formation, Astronomy: Elements of surprise, *News and views*, Cowan, J, **423**, 29
  Astronomy: An early stellar nursery, *News and views*, Solomon, P, **424**, 382
  The formation of cluster elliptical galaxies as revealed by extensive star formation, *Letter to Nature*, Stevens, J A, Ivison, R J, Dunlop, J S, Smail, I R, Percival, W J, Hughes, D H, Rottgering, H J A, van Breugel, W J M, Reuland, M, **425**, 264
  The formation of the first low-mass stars from gas with low carbon and oxygen abundances, *Letter to Nature*, Bromm, V, Loeb, A, **425**, 812

stars, iron-poor, First-generation black-hole-forming supernovae and the metal abundance pattern of a very iron-poor star, *Letter to Nature*, Umeda, H, Nomoto, K, **422**, 871

stars, metal-poor, The elemental abundance pattern in a galaxy at $z = 2.626$, *Letter to Nature*, Prochaska, J X, Howk, J C, Wolfe, A M, **423**, 57

STAT3 protein, STAT3 signalling is required for leptin regulation of energy balance but not reproduction, *Letter to Nature*, Bates, S H, Stearns, W H, Dundon, T A, Schubert, M, Tso, A W K, Wang, Y, Banks, A S, Lavery, H J, Haq, A K, Maratos-Flier, E, Neel, B G, Schwartz, M W, Myers Jr, M G, **421**, 856

statistics, Statistical model leaves Peru counting the cost of civil war, *News*, Knight, J, **425**, 6
  The public has its own view of what is a risk, *Correspondence*, Schuler, E, **425**, 343

Ste12 transcription factor, Srb10/Cdk8 regulates yeast filamentous growth by phosphorylating the transcription factor Ste12, *Letter to Nature*, Nelson, C, Goto, S, Lund, K, Hung, W, Sadowski, I, **421**, 187

steam power, Watt's lots of steam, *News in brief*, **422**, 250

steel, Creep-strengthening of steel at high temperatures using nano-sized carbonitride dispersions, *Letter to Nature*, Taneike, M, Abe, F, Sawada, K, **424**, 294

stellar fluxes, The recent expansion of Pluto's atmosphere, *Letter to Nature*, Elliot, J L, Ates, A, Babcock, B A, Bosh, A S, Buie, M W, Clancy, K B, Dunham, E W, Elkenberry, S S, Hall, D T, Kern, S D, Leggett, S K, Levine, S E, Moon, D S, Olkin, C B, Osip, D J, Pasachoff, J M, Penprase, B E, Person, M J, Qu, S, Rayner, J T, Roberts Jr, L C, Salyk, C V, Souza, S P, Stone, R C, Taylor, B W, Tholen, D J, Thomas-Osip, J E, Ticehurst, D R, Wasserman, L H, **424**, 165
  Large changes in Pluto's atmosphere as revealed by recent stellar occultations, *Letter to Nature*, Sicardy, B, Widemann, T, Lellouch, E, Veillet, C, Cuillandre, J-C, Colas, F, Roques, F, Beisker, W, Kretlow, M, Lagrange, A-M, Gendron, E, Lacombe, F, Lecacheux, J, Birnbaum, C, Flenga, A, Leyrat, C, Maury, A, Raynaud, E, Renner, S, Schultheis, M, Brooks, K, Delsanti, A, Halnaut, O R, Gilmozzi, R, Lidman, C, Spyromillo, J, Rapaport, M, Rosenzweig, P, Naranjo, O, Porras, L, Diaz, F, Calderon, H, Carrillo, S, Carvajal, A, Recalde, E, Gaviria Cavero, L, Montalvo, C, Barria, D, Campos, R, Duffard, R, Levato, H, **424**, 168

stem-cell plasticity, Cell fusion is the principal source of bone-marrow-derived hepatocytes, *Letter to Nature*, Wang, X, Willenbring, H, Akkari, Y, Torimaru, Y, Foster, M, Al-Dhalimy, M, Lagasse, E, Finegold, M, Olson, S, Grompe, M, **422**, 897

stem-cell research, Biotech critic tries to sew up research on chimaeras, *News*, Check, E, **421**, 4
  Biologists seek blueprint for international stem-cell effort, *News*, Check, E, **421**, 102
  German researchers set to receive Israeli stem-cell shipment, *News*, Watzman, H, **421**, 199
  Developmental biology: Decoding stem cells' powers, *News and views*, Pearson, H, **421**, 228
  Haematopoietic stem cells retain long-term repopulating activity and multipotency in the absence of stem-cell leukaemia SCL/*tal-1* gene, *Letter to Nature*, Mikkola, H K A, Klintman, J, Yang, H, Hock, H, Schlaeger, T M, Fujiwara, Y, Orkin, S H, **421**, 547
  Neurobiology: Stem cells stop dead, *News and views*, Pearson, H, **421**, 597
  NIH aims to characterize embryonic stem-cell lines, *News in brief*, **421**, 682
  Scientists blast European vote to limit stem-cell work, *News in brief*, **422**, 654
  Disease insights from stem cells, *Opinion*, **422**, 787
  Stem cells: Fusion brings down barriers, *News and views*, Medvinsky, A, Smith, A, **422**, 823
  Cell fusion is the principal source of bone-marrow-derived hepatocytes, *Letter to Nature*, Wang, X, Willenbring, H, Akkari, Y, Torimaru, Y, Foster, M, Al-Dhalimy, M, Lagasse, E, Finegold, M, Olson, S, Grompe, M, **422**, 897
  Low embryo count fuels US stem-cell debate, *News*, Powell, K, **423**, 213
  Stem cells: Self-renewal writ in blood, *News and views*, Dick, J E, **423**, 231
  Bmi-1 determines the proliferative capacity of normal and leukaemic stem cells, *Article*, Lessard, J, Sauvageau, G, **423**, 255
  Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells, *Letter to Nature*, Park, I-K, ian, D, Kiel, M, Becker, M W, Pihalja, M, Weissman, I L, Morrison, S J, Clarke, M F, **423**, 302

Researchers divided over ethics of a ban on cloning, *News*, Abbott, A, **423**, 373
Approval for stem cells pre-empts parliament, *News in brief*, **423**, 374
Embryos aren't essential to stem-cell research, *Correspondence*, Sherley, J L, **423**, 381
A role for Wnt signalling in self-renewal of haematopoietic stem cells, *Article*, Reya, T, Duncan, A W, Ailles, L, Domen, J, Scherer, D C, Willert, K, Hintz, L, Nusse, R, Weissman, I L, **423**, 409
Wnt proteins are lipid-modified and can act as stem cell growth factors, *Letter to Nature*, Willert, K, Brown, J D, Danenberg, E, Duncan, A W, Weissman, I L, Reya, T, Yates III, J R, Nusse, R, **423**, 448
Role of ERas in promoting tumour-like properties in mouse embryonic stem cells, *Letter to Nature*, Takahashi, K, Mitsui, K, Yamanaka, S, **423**, 541
Japanese team makes stem cells, *News*, Cyranoski, D, **423**, 577
International website to collate data on embryonic stem cells, *News in brief*, **423**, 578
Repository to nurture standard stem cells, *News in brief*, **424**, 9
Europe split over move to loosen stem-cell regulations, *News*, Abbott, A, **424**, 117
China launches primate centre to broaden medical use of monkeys, *News*, Cyranoski, D, **424**, 239
Stem cells: Turning back the clock, *News and views*, Pilcher, H R, **424**, 265
Synthetic sex cells, *News feature*, Dennis, C, **424**, 364
Czech stem-cell work heightens calls for EU ruling, *News*, Abbott, A, **424**, 602
Chinese fusion method promises fresh route to human stem cells, *News*, Dennis, C, **424**, 711
Head of Australian stem-cell centre quits to return to science, *News in brief*, **424**, 716
Developmental biology: Control stems from microRNAs, *News and views*, Pearson, H, **424**, 898
Stem cells: To be and not to be, *News and views*, Lin, H, **425**, 353
California rejects party line on stem-cell work, *News in brief*, **425**, 442
Stem cells: Interactive niches, *News and views*, Lemischka, I R, Moore, K A, **425**, 778
Identification of the haematopoietic stem cell niche and control of the niche size, *Letter to Nature*, Zhang, J, Niu, C, Ye, L, Huang, H, He, X, Tong, W-G, Ross, J, Haug, J, Johnson, T, Feng, J Q, Harris, S, Wiedemann, L M, Mishina, Y, Li, L, **425**, 836
Osteoblastic cells regulate the haematopoietic stem cell niche, *Letter to Nature*, Calvi, L M, Adams, G B, Weibrecht, K W, Weber, J M, Olson, D P, Knight, M C, Martin, R P, Schipani, E, Divieti, P, Bringhurst, F R, Milner, L A, Kronenberg, H M, Scadden, D T, **425**, 841
Bmi-1 dependence distinguishes neural stem cell self-renewal from progenitor proliferation, *Letter to Nature*, Molofsky, A V, Pardal, R, Iwashita, T, Park, I-K, Clarke, M F, Morrison, S J, **425**, 962
Take a cell, any cell, *News feature*, Dennis, C, **426**, 490
Europe dithers over regulations for stem-cell research, *News*, Abbott, A, **426**, 595
Whose View of Life? Embryos, Cloning and Stem Cells, Maienschein, J, *Book review by* Winston, R, **426**, 603
Italy takes hard line on embryo research, *News in brief*, **426**, 746
stereotypical behaviours, Captivity effects on wide-ranging carnivores, *Brief communication*, Clubb, R, Mason, G, **425**, 473
stick insects, Loss and recovery of wings in stick insects, *Letter to Nature*, Whiting, M F, Bradler, S, Maxwell, T, **421**, 264
stingrays, Physiology: Salty secrets of the Sumatran stingray, *News and views*, Pilcher, H R, **424**, 630
stochastic resonance, Medical technology: Balancing the unbalanced, *News and views*, Moss, F, Milton, J G, **425**, 911
Stock Exchange, Econophysics: Master curve for price-impact function, *Brief communication*, Lillo, F, Farmer, J D, Mantegna, R N, **421**, 129
Stock Market, Econophysics: Two-phase behaviour of financial markets, *Brief communication*, Plerou, V, Gopikrishnan, P, Stanley, H E, **421**, 130
Share slump brings biotech firms to government's door, *News*, Check, E, **423**, 908
stoichiometry, Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere, Sterner, R W, Elser, J J, *Book review by* Schindler, D W, **423**, 225
stomach cancer, Gut reaction, *News feature*, Whitfield, J, **423**, 583
stomata, The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901
storms, Airborne lab crews hope study will go down a storm, *News in brief*, **423**, 214
StpP protein, Microbiology: Destructive approach, *News and views*, Tromans, A, **426**, 23
strain fields, Measurement of the displacement field of dislocations to 0.03 Å by electron microscopy, *Letter to Nature*, Hytch, M J, Putaux, J-L, Penisson, J-M, **423**, 270
strangeness, Quantum physics: A light touch on quantum strangeness, *News and views*, Ball, P, **426**, 136
stratosphere, Detection of human influence on sea-level pressure, *Letter to Nature*, Gillett, N P, Zwiers, F W, Weaver, A J, Stott, P A, **422**, 292
Detection of bromine monoxide in a volcanic plume, *Letter to Nature*, Bobrowski, N, Honninger, G, Galle, B, Platt, U, **423**, 273
Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H$_2$, *Letter to Nature*, Rahn, T, Eiler, J M, Boering, K A, Wennberg, P O, McCarthy, M C, Tyler, S, Schauffler, S, Donnelly, S, Atlas, E, **424**, 918
Stratospheric Observatory for Astronomical Research (SOAR), Up, up and away, *News feature*, Reichhardt, T, **421**, 308
stream mesocosms, Contributions of microbial biofilms to ecosystem processes in stream mesocosms, *Letter to Nature*, Battin, T J, Kaplan, L A, Newbold, J D, Hansen, C M E, **426**, 439
streaming, Cell motility: Making streams, *News and views*, Kessin, R H, **422**, 481
streams, Earth science: Stream flow and shaken soil, *News and views*, Clarke, T, **422**, 393
Streptococcus pneumoniae, Europe launches attack on bacterial resistance, *News in brief*, **426**, 488
Streptococcus pyogenes, Pathogenic bacteria attach to human fibronectin through a tandem β-zipper, *Letter to Nature*, Schwarz-Linek, U, Werner, J M, Pickford, A R, Gurusiddappa, S, Kim, J H, Pilka, E S, Briggs, J A G, Gough, T S, Höök, M, Campbell, I D, Potts, J R, **423**, 177
streptomycin, Hearing: Spin the chicken, *News and views*, Pilcher, H R, **424**, 385
Streptopelia risoria, Comparative power curves in bird flight, *Letter to Nature*, Tobalske, B W, Hedrick, T L, Dial, K P, Biewener, A A, **421**, 363
stress, Does Stress Damage the Brain? Understanding Trauma-related Disorders from a Mind-Body Perspective, Bremner, J D, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
The End Of Stress As We Know It, McEwen, B, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
Brain region linked to post-terror stress, *News*, Cyranoski, D, **424**, 360
Ecstasy proposed as help for stress victims, *News in brief*, **425**, 552
stresses, Materials science: Close-up on cracks, *News and views*, Fineberg, **426**, 131
string theory, The weight of expectation, *News and views*, Hoyle, C D, **421**, 899
Upper limits to submillimetre-range forces from extra space-time dimensions, *Letter to Nature*, Long, J C, Chan, H W, Churnside, A B, Gulbis, E A, Varney, M C M, Price, J C, **421**, 922
High-energy physics: Into the fifth dimension, *News and views*, Maldacena, J, **423**, 695
String theorists bypass NSF en route to Iran seminar, *News*, Brumfiel, G, **424**, 3
Strouhal number, Flying and swimming animals cruise at a Strouhal number tuned for high-power efficiency, *Letter to Nature*, Taylor, G K, Nudds, R L, Thomas, A L R, **425**, 707
structural biology, Structural biology: Dual approach to a light problem, *News and views*, Kuhlbrandt, W, **426**, 399
structural colour, Structural colour: Opal analogue discovered in a weevil, *Brief communication*, Parker, A R, Welch, V L, Driver, D, Martini, N, **426**, 786
Structural Genomics Consortium, Canada drives medical protein-structure hunt, *News in brief*, **422**, 462
structure-directing agents, A combustion-free methodology for synthesizing zeolites and zeolite-like materials, *Letter to Nature*, Lee, H, Zones, S I, Davis, M E, **425**, 385
subatomic particles, Particle physics: Strange days, *News and views*, Close, F, **424**, 376
subduction, Earth science: Subduction the hard way, *News and views*, Wright, A, **423**, 24
Extreme crustal oxygen isotope signatures preserved in coesite in diamond, *Letter to Nature*, Schulze, D J, Harte, B, Valley, J W, Brenan, J M, Channer, D M De R, **423**, 68
Laboratory models of the thermal evolution of the mantle during rollback subduction, *Letter to Nature*, Kincaid, C, Griffiths, R W, **425**, 58
submarine eruptions, Interaction of sea water and lava during submarine eruptions at mid-ocean ridges, *Letter to Nature*, Perfit, M R, Cann, J R, Fornari, D J, Engels, J, Smith, D K, Ridley, W I, Edwards, M H, **426**, 62
submarines, Deep-sea sub aims to get to the bottom of a muddy issue, *News*, Schiermeier, Q, **423**, 469
submersibles, Robots in the deep, *News feature*, Clarke, T, **421**, 468
Ocean experts hit wave of bad luck as sub goes under, *News in brief*, **424**, 120
substance abuse, Scientists go to jail to crack substance abuse, *News*, Singer, E, **426**, 486
suckling behaviour, Reproductive biology: Mammary messages, *News and views*, Blass, E M, **424**, 25
Chemical and behavioural characterization of the rabbit mammary pheromone, *Letter to Nature*, Schaal, B, Coureaud, G, Langlois, D, Ginies, C, Semon, E, Perrier, G, **424**, 68
sugar farming, Judge's sacking rocks Everglades clean-up, *News*, Mason, B, **425**, 551
sugars, Sugars tied to the spot, *News and views*, Flitsch, S L, Ulijn, R V, **421**, 219
sulphates, Evidence for low sulphate and anoxia in a mid-Proterozoic marine basin, *Letter to Nature*, Shen, Y, Knoll, A H, Walter, M R, **423**, 632
sulphides, Sulphide mining by the superextensile foot of symbiotic thyasirid bivalves, *Letter to Nature*, Dufour, S C, Felbeck, H, **426**, 65
sulphiredoxin, ATP-dependent reduction of cysteine-sulphinic acid by *S. cerevisiae* sulphiredoxin, *Letter to Nature*, Biteau, B, Labarre, J, Toledano, M B, **425**, 980
sulphur dioxide, Atmospheric chemistry: Iron injection, *News and views*, Ball, P, **426**, 242
Sun, Journey From the Center of the Sun, Zirker, J B, *Book review by* Klimchuk, J A, **421**, 894
Storms from the Sun: The Emerging Science of Space Weather, Carlowicz, M J, Lopez, R E, *Book review by* Singer, H J, **422**, 21
Repositioned Sun satellite beams in weather reports, *News in brief*, **423**, 910
Heads in the clouds, *News in brief*, **424**, 8
Solar physics: Heat exposure, *News and views*, Rosner, R, **425**, 672
Three dimensional magnetic field topology in a region of solar coronal heating, *Letter to Nature*, Solanki, S K, Lagg, A, Woch, J, Krupp, N, Collados, M, **425**, 692
The Sun flares up with a record-breaking burst, *News in brief*, **426**, 112
Polar eclipse may cast light on solar size, *News in brief*, **426**, 376
supercomputers, A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17
Game on for PlayStations as consoles take quantum leap, *News in brief*, **423**, 578
Supercomputer panel seeks winning formula, *News in brief*, **424**, 868
Condensed-matter physics: Vortices and hearts, *News and views*, Clarke, J, **425**, 133
Climate model gets whirlwind treatment, *News in brief*, **425**, 552
Big Mac team serves up cheap supercomputer, *News in brief*, **425**, 652
superconducting gaps, The origin of multiple superconducting gaps in MgB$_2$, *Letter to Nature*, Souma, S, Machida, Y, Sato, T, Takahashi, T, Matsui, H, Wang, S C, Ding, H, Kaminski, A, Campuzano, J C, Sasaki, S, Kadowaki, K, **423**, 65
superconducting quantum interference devices (SQUIDS), A subfemtotesla multichannel tomic magnetometer, *Letter to Nature*, Kominis, I K, Kornack, T W, Allred, J C, Romalis, M V, **422**, 596
superconductivity, Superconductivity in two-dimensional CoO$_2$ layers, *Letter to Nature*, Takada, K, Sakurai, H, Takayama-Muromachi, E, Izumi, F, Dilanian, R A, Sasaki, T, **422**, 53
Retraction: Gate-induced superconductivity in a solution-processed organic polymer film, *Letter to Nature*, Schön, J H, Dodabalapur, A, Bao, Z, Kloc, Ch, Schenker, O, Batlogg, B, **422**, 92
Retraction: Superconductivity in CaCuO$_2$ as a result of field-effect doping, *Letter to Nature*, Schön, J H, Dorget, M, Beuran, F C, Zu, X Z, Arushanov, E, Deville Cavellin, C, Laguës, M, **422**, 92
Retraction: Superconductivity in single crystals of the fullerene C70, *Letter to Nature*, Schön, J H, Kloc, Ch, Siegrist, T, Steigerwald, M, Svensson, C, Batlogg, B, **422**, 92
Retraction: Superconductivity at 52 K in hole-doped C60, *Letter to Nature*, Schön, J H, Kloc, Ch, Batlogg, B, **422**, 93
Retraction: Superconductivity in molecular crystals induced by charge injection, *Letter to Nature*, Schön, J H, Kloc, Ch, Batlogg, B, **422**, 93
Antiferromagnetic order as the competing ground state in electron-doped Nd$_{1.85}$Ce$_{0.15}$CuO$_4$, *Letter to Nature*, Kang, H J, Dai, P, Lynn, J W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y, **423**, 522
Superconductivity phase diagram of Na$_x$CoO$_2$.1.3H$_2$O, *Letter to Nature*, Schaak, R E, Kilmczuk, T, Foo, M L, Cava, R J, **424**, 527
Superconductivity: Lifting the gossamer veil, *News and views*, Coleman, P, **424**, 625
Signature of optimal doping in Hall-effect measurements on a high-temperature superconductor, *Letter to Nature*, Balakirev, F F, Betts, J B, Migliori, A, Ono, S, Ando, Y, Boebinger, G S, **424**, 912
Magnetic enhancement of superconductivity from electron spin domains, *Letter to Nature*, Radovan, H A, Fortune, N A, Murphy, T P, Hannahs, S T, Palm, E C, Tozer, S W, Hall, D, **425**, 51
Cold wars: A History of Superconductivity, Matricon, J, Waysand, G, *Book review by* Anderson, P W, **426**, 17
superconductors, High-temperature superconductor bulk magnets that can trap magnetic fields of over 17 tesla at 29K, *Letter to Nature*, Tomita, M, Murakami, M, **421**, 517
Ordering and manipulation of the magnetic moments in large-scale superconducting π-loop arrays, *Letter to Nature*, Hilgenkamp, H, Ariando, Smilde, H-J H, Blank, D H A, Rijnders, G, Rogalla, H, Kirtley, J R, Tsuei, C C, **422**, 50
Pebbles in the nodal pond, *News and views*, Zaanen, J, **422**, 569
Relating atomic-scale electronic phenomena to wave-like quasiparticle states in superconducting Bi$_2$Sr$_2$CaCu$_2$O$_{8+\delta}$, *Letter to Nature*, McElroy, K, Simmonds, R W, Hoffman, J E, Lee, D-H, Orenstein, J, Eisaki, H, Uchida, S, Davis, J C, **422**, 592
A hidden pseudogap under the 'dome' of superconductivity in electron-doped high-temperature superconductors, *Letter to Nature*, Alff, L, Krockenberger, Y, Welter, B, Schonecke, M, Gross, R, Manske, D, Naito, M, **422**, 698
No mixing of superconductivity and antiferromagnetism in a high-temperature superconductor, *Letter to Nature*, Bozovic, I, Logvenov, G, Verhoeven, M A J, Caputo, P, Goldobin, E, Geballe, T H, **422**, 873
The origin of multiple superconducting gaps in MgB$_2$, *Letter to Nature*, Souma, S, Machida, Y, Sato, T, Takahashi, T, Matsui, H, Wang, S C, Ding, H, Kaminski, A, Campuzano, J C, Sasaki, S, Kadowaki, K, **423**, 65
High-temperature superconductors: Universal nodal Fermi velocity, *Brief communication*, Zhou, X J, Yoshida, T, Lanzara, A, Bogdanov, P V, Kellar, S A, Shen, K M, Yang, W L, Ronning, F, Sasagawa, T, Kakashita, T, Noda, T, Eisaki, H, Uchida, S, Lin, C T, Zhou, F, Xiong, W, Ti, W X, Zhao, Z X, Fujimori, A, Hussain, Z, Shen, Z-X, **423**, 398
Quantum critical behaviour in a high-Tc superconductor, *Letter to Nature*, van der Marel, D, Molegraaf, H J A, Zaanen, J, Nussinov, Z, Carbone, F, Damascelli, A, Eisaki, H, Greven, M, Kes, P H, Li, M, **425**, 271
A coherent three-dimensional Fermi surface in a high-transition-temperature superconductor, *Letter to Nature*, Hussey, N E, Abdel-Jawad, M, Carrington, A, MacKenzie, A P, Balicas, L, **425**, 814
A broadband superconducting detector suitable for use in large

arrays, *Letter to Nature*, Day, P K, LeDuc, H G, Mazin, B A, Vayonakis, A, Zmuidzinas, J, **425**, 817
Demonstration of conditional gate operation using superconducting charge qubits, *Letter to Nature*, Yamamoto, T, Pashkin, Y A, Astaflev, O, Nakamura, Y, Tsai, J S, **425**, 941
Condensed-matter physics: Spurious magnetism in high-T_c superconductor, *Brief communication*, Mang, P K, Larochelle, S, Greven, M, **426**, 139
Reply: Condensed-matter physics: Spurious magnetism in high-Tc superconductor, *Brief communication*, Kang, H J, Dai, P, Lynn, W, Matsuura, M, Thompson, J R, Zhang, S-C, Argyriou, D N, Onose, Y, Tokura, Y, **426**, 140
Subatomic movements of a domain wall in the Peierls potential, *Letter to Nature*, Novoselov, K S, Geim, A K, Dubonos, S V, Hill, E W, Grigorieva, I V, **426**, 812
supercooling, Phonon interpretation of the 'boson peak' in supercooled liquids, *Letter to Nature*, Grigera, T S, Martin-Mayor, V, Parisi, G, Verrocchio, P, **422**, 289
superfluids, Turbulence: Suddenly it's chaos, *News and views*, Pickett, G, **424**, 1002
An intrinsic velocity-independent criterion for superfluid turbulence, *Letter to Nature*, Finne, A P, Araki, T, Blaauwgeers, R, Eltsov, V B, Kopnin, N B, Krusius, M, Skrbek, L, Tsubota, M, Volovik, G E, **424**, 1022
Quantum physics: Seven atoms make a superfluid, *News and views*, Ball, P, **425**, 914
Cold wars: A History of Superconductivity, Matricon, J, Waysand, G, *Book review by* Anderson, P W, **426**, 17
Emergence of a molecular Bose-Einstein condensate from a Fermi gas, *Letter to Nature*, Greiner, M, Regal, C A, Jin, D S, **426**, 537
superior colliculus, Opposing basal ganglia processes shape midbrain visuomotor activity bilaterally, *Letter to Nature*, Jiang, H, Stein, B E, McHaffie, J G, **423**, 982
supernebulae, An extragalactic supernebula confined by gravity, *Letter to Nature*, Turner, J L, Beck, S C, Crosthwaite, L P, Larkin, J E, McLean, I S, Meier, D S, **423**, 621
Supernova/Acceleration Probe, Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108
US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887
supernovae, Supernova study shows how ancients saw the light, *News in brief*, **422**, 106
Astronomy: Telling the tale of the first stars, *News and views*, Beers, T C, **422**, 825
Astrophysics: How did the metals in a giant star originate, *Brief communication*, Bonifacio, P, Limongi, M, Chieffi, A, **422**, 834
Low-mass relics of early star formation, *Letter to Nature*, Schneider, R, Ferrara, A, Salvaterra, R, Omukai, K, Bromm, V, **422**, 869
First-generation black-hole-forming supernovae and the metal abundance pattern of a very iron-poor star, *Letter to Nature*, Umeda, H, Nomoto, K, **422**, 871
The supernova connection, *News and views*, Meszaros, P, **423**, 809
A very energetic supernova associated with the γ-ray burst of 29 March 2003, *Letter to Nature*, Hjorth, J, Sollerman, J, Moller, P, Fynbo, J P U, Woosley, S E, Kouveliotou, C, Tanvir, N R, Greiner, J, Andersen, M I, Castro-Tirado, A J, Castro Ceron, J M, Fruchter, A S, Gorosabel, J, Jakobsson, P, Kaper, L, Klose, S, Masetti, N, Pedersen, H, Pedersen, K, Plan, E, Palazzi, E, Rhoads, J E, Rol, E, van den Heuvel, E P J, Vreeswijk, P M, Watson, D, Wijers, R A M J, **423**, 847
Type II supernovae as a significant source of interstellar dust, *Letter to Nature*, Dunne, L, Eales, S, Ivison, R, Morgan, H, Edmunds, M, **424**, 285
Astronomy: An elementary puzzle, *News and views*, Baron, E, **424**, 628
An asymptotic-giant-branch star in the progenitor system of a type Ia supernova, *Letter to Nature*, Hamuy, M, Phillips, M M, Suntzeff, N B, Maza, J, González, L E, Roth M, Krisciunas, K, Morrell, N, Green, E M, Persson, S E, McCarthy, P J, **424**, 651
US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887
Near-infrared flares from accreting gas around the supermassive black hole at the Galactic Centre, *Letter to Nature*, Genzel, R, Schödel, R, Ott, T, Eckart, A, Alexander, T, Lacombe, F, Rouan, D, Aschenbach, B, **425**, 934
Astrophysics: Refreshed shocks from a γ-ray burst, *Brief communication*, Granot, J, Nakar, E, Piran, T, **426**, 138
A common origin for cosmic explosions inferred from calorimetry of GRB0303929, *Letter to Nature*, Berger, E, Kulkarni, S R, Pooley, G, Frail, D A, McIntyre, V, Wark, R M, Sari, R, Soderberg, A M, Fox, D W, Yost, S, Price, P A, **426**, 154
Evolution of the polarization of the optical afterglow of the γ-ray burst GRB030329, *Letter to Nature*, Greiner, J, Klose, S, Reinsch, K, Schmid, H M, Sari, R, Hartmann, D H, Kouveliotou, C, Rau, A, Palazzi, E, Straubmeier, C, Stecklum, B, Zharikov, S, Tovmassian, G, Barnbanter, O, Ries, C, Jehin, E, Henden, A, Kaas, A A, Grav, T, Hjorth, J, Pedersen, H, Wijers, R A M J, Kaufer, A, Park, H-S, Williams, G, Reimer, O, **426**, 157
Astronomy: Beacons in the distant cosmos, *News and views*, Piro, L, **426**, 397
superparamagnetism, Beating the superparamagnetic limit with exchange bias, *Letter to Nature*, Skumryev, V, Stoyanov, S, Zhang, Y, Hadjipanayis, G, Givord, D, Nogués, J, **423**, 850
superposition of states, Quantum computing: The qubit duet, *News and views*, Blatter, G, **421**, 796
supersonic flight, A flight of fancy, *Opinion*, **423**, 903
supersymmetry (SUSY), The dark side, *News and views feature*, Fukugita, M, **422**, 489
supramolecular organization, Controlling molecular desposition and layer structure with supramolecular surface assemblies, *Letter to Nature*, Theobold, J A, Oxtoby, N S, Philips, M A, Champness, N R, Beton, P H, **424**, 1029
surface chemistry, Surface chemistry: Riddle of the stones, *News and views*, Ball, P, **422**, 275
Lubrication by charged polymers, *Letter to Nature*, Raviv, U, Glasson, S, Kampf, N, Gohy, J-F, Jerome, R, Klein, J, **425**, 163
surface plasmons, Surface plasmon subwavelengths optics, *Insight review article*, Barnes, W L, Dereux, A, Ebbesen, T W, **424**, 824
surface science, Surface science: View from the edge, *News and views*, Castner, D G, **422**, 129
Surface science: What's cooking?, *News and views*, Daw, R, **425**, 34
surface studies, Observation of surface and bulk phase transitions in nematic liquid crystals, *Letter to Nature*, Boamfa, M I, Kim, M W, Mann, J C, Rasing, Th, **421**, 149
surface tension, The effects of surfactants on spilling breaking waves, *Letter to Nature*, Liu, X, Duncan, J H, **421**, 520
Capillary attraction: Like-charged particles at liquid interfaces, *Brief communication*, Megens, M, Aizenberg, J, **424**, 1014
Reply: Capillary attraction: Like-charged particles at liquid interfaces, *Brief communication*, Nikolaides, M G, Bausch, A R, Hsu, M F, Dinsmore, A D, Brenner, M P, Gay, C, Weitz, D A, **424**, 1014
surfactants, The effects of surfactants on spilling breaking waves, *Letter to Nature*, Liu, X, Duncan, J H, **421**, 520
Self-assembly in aqueous solution of wheel-shaped Mo_{154} oxide clusters into vesicles, *Letter to Nature*, Liu, T, Diemann, E, Li, H, Dress, A W M, Müller, A, **426**, 59
surgery, Fibre optics: Surgery by sunlight on live animals, *Brief communication*, Gordon, J M, Feuermann, D, Huleihil, M, Mizrahi, S, Shaco-Levy, R, **424**, 510
surveillance systems, Poorly pets to provide early warning in war on bioterror, *News in brief*, **421**, 882
surveying, Measuring America: How an Untamed Wilderness Shaped the United States and Fulfiled the Promise of Democracy, Linklater, A, *Book review by* Pyenson, L, **421**, 211
sustainability, The law of the jungle, *News feature*, Whitfield, J, **421**, 8
Biodiversity, Sustainability and Human Communities: Protecting Beyond the Protected, O'Riordan, T, Stoll-Kleemann, S, *Book review by* Child, B, **421**, 113
A blot on the land, *Concepts*, Rees, W E, **421**, 898
Dynamic diversity, *Concepts*, Knapp, S, **422**, 475
How technology can reduce our impact on the Earth, *Correspondence*, Goklany, I M, Trewavas, A J, **423**, 115
Unbalanced view of a dynamic world, *Correspondence*, Martin, G, **423**, 115
Conservation plans stymied by inadequate data, *News in brief*, **425**, 8
SV2 protein, Cell biology: Torpedo smart gel, *News and views*, Pilcher, H R, **423**, 30
swamps, Swamp row bogs down Singapore's bid to reclaim land, *News*, Cyranowski, D, **426**, 592
Sweden, Lund University, Parapsychology post set up for long-dead benefactor, *News in brief*, **423**, 214
swimming, Delta-wing function of webbed feet gives hydrodynamic lift for swimming propulsion in birds, *Letter to Nature*, Johansson, L C, Norberg, R A, **424**, 65
Flying and swimming animals cruise at a Strouhal number tuned for high-power efficiency, *Letter to Nature*, Taylor, G K, Nudds, R L, Thomas, A L R, **425**, 707
Swiss Re building, London's gherkin, *Science in culture*, Hopkin, M, **422**, 22
Switzerland, Switzerland's role as a hotspot of type specimens, *Correspondence*, Agosti, D, **421**, 889
Shortcomings halt study of Swiss cancer vaccine, *News*, Schiermeier, Q, **426**, 484
symbiosis, Plant biology: Mutual sanctions, *News and views*, Sprent, J, **422**, 672
Amino-acid cycling drives nitrogen fixation in the legume–*Rhizobium* symbiosis, *Letter to Nature*, Lodwig, E M, Hosie, A H F, Bourdes, A, Findlay, K, Allaway, D, Karunakaran, R, Downie, J A, Poole, P S, **422**, 722
Host sanctions and the legume–rhizobium mutualism, *Letter to Nature*, Kiers, E T, Rousseau, R A, West, S A, Denison, R F, **425**, 78
Plant biology: Locks, keys and symbioses, *News and views*, Parniske, M, Downie, J A, **425**, 569
Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases, *Article*, Radutoiu, S, Madsen, L H, Madsen, E B, Felle, H H, Umehara, Y, Gronlund, M, Sato, S, Nakamura, Y, Tabata, S, Sandal, N, Stougaard, J, **425**, 585
A receptor kinase gene of the LysM type is involved in legume perception of rhizobial signals, *Letter to Nature*, Madsen, E B, Madsen, L H, Radutolu, S, Olbryt, M, Rakwalska, M, Szczyglowski, K, Sato, S, Kaneko, T, Tabata, S, Sandal, N, Stougaard, J, **425**, 637
Sulphide mining by the superextensile foot of symbiotic thyasirid bivalves, *Letter to Nature*, Dufour, S C, Felbeck, H, **426**, 65
symmetry, Inorganic chemistry: Molecules lend a hand, *News and views*, Ball, P, **422**, 487
Biophysics: Symmetry by design, *News and views*, Ball, P, **424**, 31
sympatric diversification, Erratum: The role of parasites in sympatric and allopatric host diversification, *Letter to Nature*, Buckling, A, Rainey, P B, **421**, 294
sympatric speciation, Evolutionary biology: Splitting in space, *News and views*, Tautz, D, **421**, 225
Speciation by host switch in brood parasitic indigobirds, *Letter to Nature*, Sorenson, M D, Sefc, K M, Payne, R B, **424**, 928
synapse, Functional and spatial segregation of secretory vesicle pools according to vesicle age, *Letter to Nature*, Duncan, R R, Greaves, J, Wiegand, U K, Matskevich, I, Bodammer, G, Apps, D K, Shipston, M J, Chow, R H, **422**, 176
Conservation of total synaptic weight through balanced synaptic depression and potentiation, *Letter to Nature*, Royer, S, Paré, D, **422**, 518
Turning on and off recurrent balanced cortical activity, *Letter to Nature*, Shu, Y, Hasenstaub, A, McCormick, D A, **423**, 288
All change at the synapse, *News and views*, Rizzoli, S O, Betz, W J, **423**, 591
Neurobiology: Synapses unplugged, *News and views*, Littleton, J T, Sheng, M, **423**, 931
α-Neurexins couple Ca^{2+} channels to synaptic vesicle exocytosis, *Article*, Missler, M, Zhang, W, Rohlmann, A, Kattenstroth, G, Hammer, R E, Gottmann, K, Sudhof, T C, **423**, 939
Structure and gating mechanism of the acetylcholine receptor pore, *Article*, Miyazawa, A, Fujiyoshi, Y, Unwin, N, **423**, 949
The role of neuronal identity in synaptic competition, *Letter to Nature*, Kasthuri, N, Lichtman, J W, **424**, 426
Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition, *Letter to Nature*, Buffelli, M, Burgess, R W, Feng, G, Lobe, C G, Lichtman, J W, Sanes, J R, **424**, 430
Induction of dendritic spines by an extracellular domain of AMPA receptor subunit GluR2, *Letter to Nature*, Passafaro, M, Nakagawa, T, Sala, C, Sheng, M, **424**, 677
Neurobiology: Backchat at the synapse, *News and views*, Salinas, P C, **425**, 464
Presynaptic induction of heterosynaptic associative plasticity in the mammalian brain, *Letter to Nature*, Humeau, Y, Shaban, H, Bissiere, S, Luthi, A, **426**, 841
synaptic conductance, Balanced inhibition underlies tuning and sharpens spike timing in auditory cortex, *Letter to Nature*, Wehr, M, Zador, A M, **426**, 442
synaptic depression, Neurobiology: The importance of depression, *News and views*, Stevens, C F, **421**, 29
Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **421**, 66
Conservation of total synaptic weight through balanced synaptic depression and potentiation, *Letter to Nature*, Royer, S, Paré, D, **422**, 518
Corrigendum: Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **423**, 197
synaptic plasticity, Neurobiology: The importance of depression, *News and views*, Stevens, C F, **421**, 29
Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **421**, 66
Corrigendum: Synaptic depression in the localization of sound, *Letter to Nature*, Cook, D L, Schwindt, P C, Grande, L A, Spain, W J, **423**, 197
Cyclic AMP/GMP-dependent modulation of Ca^{2+} channels sets the polarity of nerve growth-cone turning, *Letter to Nature*, Nishiyama, M, Hoshino, A, Tsai, L, Henley, J R, Goshima, Y, Tessier-Lavigne, M, Poo, M-m, Hong, K, **423**, 990
synaptic potentiation, Conservation of total synaptic weight through balanced synaptic depression and potentiation, *Letter to Nature*, Royer, S, Paré, D, **422**, 518
synaptic vesicles, Three modes of synaptic vesicular recycling revealed by single-vesicle imaging, *Article*, Gandhi, S P, Stevens, S F, **423**, 607
Single synaptic vesicles fusing transiently and successively without loss of identity, *Letter to Nature*, Aravanis, A M, Pyle, J L, Tsien, R W, **423**, 643
Direct modulation of synaptic vesicle priming by $GABA_B$ receptor activation at a glutamatergic synapse, *Letter to Nature*, Sakaba, T, Neher, E, **424**, 775
Synaptotagmin I is necessary for compensatory synaptic vesicle endocytosis in vivo, *Letter to Nature*, Poskanzer, K E, Marek, K W, Sweeney, S T, Davis, G W, **426**, 559
synaptophluorin, All change at the synapse, *News and views*, Rizzoli, S O, Betz, W J, **423**, 591
synaptotagmin, Different domains of synaptotagmin control the choice between kiss-and-run and full fusion, *Letter to Nature*, Wang, C-T, Lu, J-C, Bai, J, Chang, P Y, Martin, T F J, Chapman, E R, Jackson, M B, **424**, 943
Synaptotagmin I is necessary for compensatory synaptic vesicle endocytosis in vivo, *Letter to Nature*, Poskanzer, K E. Marek, K W, Sweeney, S T, Davis, G W, **426**, 559
synchronization, Nonlinear dynamics: Synchronization from chaos, *News and views*, Ashwin, P, **422**, 384
synchrony, All together now, *News feature*, Nadis, S, **421**, 780
Sync: The Emerging Science of Spontaneous Order, Strogatz, S, *Book review by* Collins, J J, **422**, 117
synchrotron, The crystal's in the mail, *News feature*, Smith Schmidt, T, **423**, 799
Collision debris yields five-quark particle, *News*, Cyranoski, D, **424**, 7
synchrotron radiation, A γ-ray burst with a high-energy spectral component inconsistent with the synchrotron shock model, *Letter to Nature*, González, M M, Dingus, B L, Kaneko, Y, Preece, R D, Dermer, C D, Briggs, M S, **424**, 749
synchrotron X-ray source, Cash crisis casts pall over synchrotron X-ray source, *News*, Dennis, C, **423**, 210
Synechococcus, The genome of a motile marine *Synechococcus*, *Letter to Nature*, Palenik, B, Brahamsha, B, Larimer, F W, Land, M, Hauser, L, Chain, P, Lamerdin, J, Regala, W, Allen, E E, McCarren, J, Paulsen, I, Dufresne, A, Partensky, F, Webb, E A, Waterbury, J, **424**, 1037
Cyanophages infecting the oceanic cyanobacterium *Prochlorococ-*

cus, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **424**, 1047
  Corrigendum: Cyanophages infecting the oceanic cyanobacterium Prochlorococcus, *Letter to Nature*, Sullivan, M B, Waterbury, J B, Chisholm, S W, **426**, 584

synergy, Environmentally mediated synergy between perception and behaviour in mobile robots, *Letter to Nature*, Verschure, P F M J, Voegtlin, T, Douglas, R J, **425**, 620

Syngenta, Biotech joint venture flounders in wake of Syngenta's silence, *News in brief*, **421**, 6
  Syngenta ends plant-research deal with Berkeley, *News*, Dalton, R, **426**, 216

syngnathids, Evolutionary biology: Polygamy and parenting, *News and views*, Pagel, M, **424**, 23

synthetic chemistry, Synthetic chemistry: A perfect fit, *News and views*, Ramamurthy, V, **423**, 394
  Synthetic chemistry: Ship reverses out of bottle, *News and views*, Corma, A, **425**, 356

synthetic materials, Synthetic sea shell, *News and views*, Rubner, M, **423**, 925

systems biology, Understanding cells, *Concepts*, Nurse, P, **424**, 883
  Harvard heralds fresh take on systems biology, *News*, Check, E, **425**, 439

T-box proteins, GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5, *Letter to Nature*, Garg, V, Kathiriya, I S, Barnes, R, Schluterman, M K, ing, I N, Butler, C A, Rothrock, C R, Eapen, R S, Hirayama-Yamada, K, Joo, K, Matsuoka, R, Cohen, J C, Srivastava, D, **424**, 443

T-cell receptors, Selection of evolutionarily conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **422**, 164
  Corrigendum: Selection of evolutionary conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **423**, 1018

T-cells, Activation of human CD4$^+$ cells with CD3 and CD46 induces a T-regulatory cell 1 phenotype, *Letter to Nature*, Kemper, C, Chan, A C, Green, J M, Brett, K A, Murphy, K M, Atkinson, J P, **421**, 388
  CD4$^+$ T cells are required for secondary expansion and memory in CD8$^+$ T lymphocytes, *Letter to Nature*, Janssen, E M, Lemmens, E E, Wolfe, T, Christen, U, von Herrath, M G, Schoenberger, S P, **421**, 852
  Immunology: Lone rangers, *News and views*, Schuldt, A, **422**, 132
  Selection of evolutionarily conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **422**, 164
  Evolving concepts of rheumatoid arthritis, *Insight review article*, Firestein, G S, **423**, 356
  Addendum: HIV-1 superinfection despite broad CD8$^+$ T-cell responses containing replication of the primary virus, *Letter to Nature*, Altfeld, M, Allen, T M, Yu, X G, Johnston, M N, Agrawal, D, Korber, B T, Montefiori, D C, O'Connor, D H, Davis, B T, Lee, P K, Maier, E L, Harlow, J, Goulder, P J R, Brander, C, Rosenberg, E S, Walker, B D, **423**, 461
  Association of the T-cell regulatory gene *CTLA4* with susceptibility to autoimmune disease, *Article*, Ueda, H, Howson, J M M, Esposito, L, Heward, J, Snook, H, Chamberlain, G, Rainbow, D B, Hunter, K M D, Smith, A N, Di Genova, G, Herr, M H, Dahlman, I, Payne, F, Smyth, D, Lowe, C, Twells, R C J, Howlett, S, Healy, B, Nutland, S, Rance, H E, Everett, V, Smink, L J, Lam, A C, Cordell, H J, Walker, N M, Bordin, C, Hulme, J, Motzo, C, Cucca, F, Hess, J F, Metzker, M L, Rogers, J, Gregory, S, Allahabadia, A, Nithiyananthan, R, Tuomilehto-Wolf, E, Tuomilehto, J, Bingley, P, Gillespie, K M, Undlien, D E, Ronningen, K S, Guja, C, Ionescu-Tîrgovişte, C, Savage, D A, Maxwell, A P, Carson, D J, Patterson, C C, Franklyn, J A, Clayton, D G, Peterson, L B, Wicker, L S, Todd, J A, Gough, S C L, **423**, 506
  Corrigendum: Selection of evolutionary conserved mucosal-associated invariant T cells by MR1, *Letter to Nature*, Treiner, E, Duban, L, Bahram, S, Radosavljevic, M, Wanner, V, Tilloy, F, Affaticati, P, Gilfillan, S, Lantz, O, **423**, 1018
  Selective imprinting of gut-homing T cells by Peyer's patch dendritic cells, *Letter to Nature*, Mora, J R, Bono, M R, Manjunath, N, Weninger, W, Cavanagh, L L, Rosemblatt, M, von Andrian, U H, **424**, 88
  HIV: Cross-talk and viral reservoirs, *News and views*, Pomerantz, R J, **424**, 136
  HIV-1 Nef intersects the macrophage CD40L signalling pathway to promote resting-cell infection, *Letter to Nature*, Swingler, S, Brichacek, B, Jacque, J-M, Ulich, C, Zhou, J, Stevenson, M, **424**, 213
  Immunology: Who turned on the T cells?, *News and views*, Heemels, M-T, **424**, 740
  ER-phagosome fusion defines an MHC class I cross-presentation compartment in dendritic cells, *Letter to Nature*, Guermonprez, P, Saveanu, L, Kleijmeer, M, Davoust, J, van Endert, P, Amigorena, S, **425**, 397
  Molecular identification of a danger signal that alerts the immune system to dying cells, *Letter to Nature*, Shi, Y, Evans, J E, Rock, K L, **425**, 516
  Specific cytotoxic T cells eliminate cells producing neutralizing antibodies, *Letter to Nature*, Planz, O, Seiler, P, Hengartner, H, Zinkernagel, R M, **426**, 474
  Take a cell, any cell, *News feature*, Dennis, C, **426**, 490
  Development and maintenance of B and T lymphocytes requires antiapoptotic MCL-1, *Letter to Nature*, Opferman, J T, Letal, A, Beard, C, Sorcinelli, M D, Ong, C C, Korsmeyer, S J, **426**, 671

TACI protein, Ligand-receptor binding revealed by the TNF family member TALL-1, *Article*, Liu, Y, Hong, X, Kappler, J, Jiang, L, Zhang, R, Xu, L, Pan, C-H, Martin, W E, Murphy, R C, Shu, H-B, Dai, S, Zhang, G, **423**, 49

tadalafil, Structure of the catalytic domain of human phosphodiesterase 5 with bound drug molecules, *Letter to Nature*, Sung, B-J, Hwang, K Y, Jeon, Y H, Lee, J I, Heo, Y-S, Kim, J H, Moon, J, Yoon, J M, Hyun, Y-L, Kim, E, Eum, S J, Park, S-Y, Lee, J-O, Lee, T G, Ro, S, Cho, J M, **425**, 98

tadpoles, Developmental biology: A tadpole's tale, *News and views*, Tromans, A, **425**, 250

tails, A tale of tails, *News and views*, Niehrs, C, **424**, 375
  The molecular nature of the zebrafish tail organizer, *Letter to Nature*, Agathon, A, Thisse, C, Thisse, F, **424**, 448

Taiwan, Avian botulism clips wings of Taiwanese spoonbills, *News in brief*, **421**, 202
  Taiwan left isolated in fight against SARS, *News*, Cyranoski, D, **422**, 652
  Taiwan slams health officials for 'lack of help' over SARS, *News in brief*, **423**, 472
  Links between erosion, runoff variability and seismicity in the Taiwan orogen, *Letter to Nature*, Dadson, S J, Hovius, N, Chen, H, Dade, W B, Hsieh, M-L, Willett, S D, Hu, J-C, Horng, M-J, Chen, M-C, Stark, C P, Lague, D, Lin, J-C, **426**, 648

Taiwan, Academia Sinica, Taiwanese institute causes upset by degrees, *News*, Cyranoski, D, **421**, 464

talin, Two-piconewton slip bond between fibronectin and the cytoskeleton depends on talin, *Letter to Nature*, Jiang, G, Giannone, G, Critchley, D R, Fukumoto, E, Sheetz, M P, **424**, 334

TALL-1 protein, Ligand-receptor binding revealed by the TNF family member TALL-1, *Article*, Liu, Y, Hong, X, Kappler, J, Jiang, L, Zhang, R, Xu, L, Pan, C-H, Martin, W E, Murphy, R C, Shu, H-B, Dai, S, Zhang, G, **423**, 49

tapirs, Ecology: Palms in motion, *News and views*, Moore, P D, **426**, 26

Tarrach, Rolf, Head of Spanish lab network quits over lack of funds, *News*, Salomone, M, **421**, 462

taste, Taste: Flavour of the week in signalling pathways, *News and views*, Heemels, M-T, **421**, 804

TATA-binding protein, Crystal structure of a transcription factor IIIB core interface ternary complex, *Letter to Nature*, Juo, Z S, Kassavetis, G A, Wang, J, Geiduschek, E P, Sigler, P B, **422**, 534

tattoos, Tattoo effects may be more than skin deep, *News in brief*, **424**, 362

tau protein, Neurobiology: Untangling tau, *News and views*, Craven, R, **424**, 898

tauopathies, Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration, *Letter to Nature*, Liou, Y-C, Sun, A, Ryo, A, Zhou, X Z, Yu, Z-X, Huang, H-K, Uchida, T, Bronson, R, Bing, G, Li, X, Hunter, T, Lu, K P, **424**, 556

taxidermy, Stuffed Dolly not starved of attention, *News in brief*, **422**, 654

taxonomy, Systema Porifera: A Guide to the Classification of Sponges, Hooper, J N A, van Soest, R W M, *Book review by* Berry, L, **421**, 791
  Switzerland's role as a hotspot of type specimens, *Correspondence*, Agosti, D, **421**, 889
  Progressing towards a biological names register, *Correspondence*, Patterson, D J, **422**, 661
  Ants join online colony to boost conservation efforts, *News*, Dalton, R, **424**, 242
  Evolution: Opportunity versus innovation, *News and views*, Harvey, P H, Purvis, A, **425**, 676
  Whale of a catch blows hole in family tree, *News*, Cyranoski, D, **426**, 219
  A newly discovered species of living baleen whale, *Letter to Nature*, Wada, S, Oishi, M, Yamada, T K, **426**, 278
  Compartments revealed in food-web structure, *Letter to Nature*, Krause, A E, Frank, K A, Mason, D M, Ulanowicz, R E, Taylor, W W, **426**, 282

Taylor, Robert, A Devil's Chaplain, Dawkins, R, Menon, L, *Book review by* Coyne, J A, **422**, 813

Taylor's power law, Species interactions can explain Taylor's power law for ecological time series, *Correspondence*, Kilpatrick, A M, Ives, A R, **422**, 65

TBX5, GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5, *Letter to Nature*, Garg, V, Kathiriya, I S, Barnes, R, Schluterman, M K, ing, I N, Butler, C A, Rothrock, C R, Eapen, R S, Hirayama-Yamada, K, Joo, K, Matsuoka, R, Cohen, J C, Srivastava, D, **424**, 443

***TCP* gene**, Control of leaf morphogenesis by microRNAs, *Article*, Palatnik, J F, Allen, E, Wu, X, Schommer, C, Schwab, R, Carrington, J C, Weigel, D, **425**, 257

tea1p protein, Fission yeast mod5p regulates polarized growth through anchoring of tea1p at cell tips, *Letter to Nature*, Snaith, H A, Sawin, K E, **423**, 647

teamwork, Who'd want to work in a team?, *Opinion*, **424**, 1

technology, MIT pulls out of Asian Media Lab in argument over rule, *News*, Jayaraman, K S, **423**, 213
  Our Own Devices: The Past and Future of Body Technology, Tenner, E, *Book review by* Segal, H P, **424**, 998
  Tomorrow's People: How 21st Century Technology is Changing the Way we Think and Feel, Greenfield, S, *Book review by* Konner, M, **426**, 385

tectonics, Snowball Earth, Nisbet, E, *Book review by* Walker, G, **422**, 812
  Magmatic events can produce rapid changes in hydrothermal vent chemistry, *Letter to Nature*, Lilley, M D, Butterfield, D A, Lupton, J E, Olson, E J, **422**, 878
  Growth of early continental crust by partial melting of eclogite, *Letter to Nature*, Rapp, R P, Shimizu, N, Norman, M D, **425**, 605
  See also **seismic studies**

tectosphere, Global anisotropy and the thickness of continents, *Letter to Nature*, Gung, Y, Panning, M, Romanowicz, B, **422**, 707

teeth, Evolutionary biology: Teeth as tools, *News and views*, Weil, A, **422**, 128

teeth, fossil, The oldest articulated chondrichthyan from the Early Devonian period, *Letter to Nature*, Miller, R F, Cloutier, R, Turner, S, **425**, 501

telecommunications, Single-nanowire electrically driven lasers, *Letter to Nature*, Duan, X, Huang, Y, Agarwal, R, Lieber, C M, **421**, 241
  Long-distance teleportation of qubits at telecommunication wavelengths, *Letter to Nature*, Marcikic, I, de Riedmatten, H, Tittel, W, Zbinden, H, Gisin, N, **421**, 509
  A champion of new technologies, *Commentary*, Parthasarathi, A, **422**, 17

telecommunications, mobile, The latest genomics, straight to your phone, *News in brief*, **422**, 8

teleportation, Long-distance teleportation of qubits at telecommunication wavelengths, *Letter to Nature*, Marcikic, I, de Riedmatten, H, Tittel, W, Zbinden, H, Gisin, N, **421**, 509

telescopes, Shake up for management at Arecibo radio telescope, *News in brief*, **421**, 6
  High-altitude observatory meets mounting opposition, *News in brief*, **421**, 103
  Radio telescope plan gets inaugural chief, *News in brief*, **421**, 103
  Stargazers win heated battle over Native American site, *News in brief*, **421**, 466
  Astronomy: Star formation out at the edges, *News and views*, Clarke, T, **421**, 493
  Astronomers urge NASA not to cut corners on Hubble successor, *News*, Reichhardt, T, **422**, 3
  'Revolutionary' telescope gets green light, *News*, Adam, D, **422**, 4
  Space: telescopes reveal the way forward, *Correspondence*, Angel, R, **422**, 373
  Infrared observatory prepares for lift-off, *News*, Reichhardt, T, **422**, 549
  Rocket-engine defect delays observatory launch, *News in brief*, **423**, 8
  Telescope loses space to Native American site, *News in brief*, **423**, 8
  Cost-cutting reflected in shrinking mirror, *News in brief*, **423**, 578
  Court rule against NASA over Hawaiian telescope, *News in brief*, **424**, 480
  Hubble versus the future, *Opinion*, **424**, 599
  NASA under pressure to extend Hubble's life, *News*, Reichhardt, T, **424**, 603
  Astronomers count the cost of thinking big, *News*, Dennis, C, **424**, 714
  NASA panel sees starry future for Hubble telescope, *News in brief*, **424**, 868
  Telescope trains a MAGIC eye on the Universe, *News in brief*, **425**, 653
  Astronomy: Faking it, *News and views*, Wright, A, **425**, 677
  Applied physics: To catch a photon, *News and views*, Prober, D E, **425**, 777
  Night club, *News feature*, Brumfiel, G, **426**, 116

Teller, Edward, California laboratory mourns loss of H-bomb pioneer, *News*, Knight, J, **425**, 226
  Obituary: Edward Teller (1908–2003), *News and views*, Maddox, J, **425**, 362
  Plans to rename Livermore laboratory fall out of favour, *News in brief*, **426**, 113

telomerase, Telomeres: Taking the measure, *News and views*, Lundblad, V, **423**, 926
  POT1 as a terminal transducer of TRF1 telomere length control, *Letter to Nature*, Loayza, D, de Lange, T, **423**, 1013

telomere, Telomere dysfunction and Atm deficiency compromises organ homeostasis and accelerates ageing, *Letter to Nature*, Wong, K-K, Maser, R S, Bachoo, R M, Menon, J, Carrasco, D R, Gu, Y, Alt, F W, DePinho, R A, **421**, 643
  Telomeres: Taking the measure, *News and views*, Lundblad, V, **423**, 926
  POT1 as a terminal transducer of TRF1 telomere length control, *Letter to Nature*, Loayza, D, de Lange, T, **423**, 1013
  A DNA damage checkpoint response in telomere-initiated senescence, *Letter to Nature*, d'Adda di Fagagna, F, Reaper, P M, Clay-Farrace, L, Fiegler, H, Carr, P, von Zglinicki, T, Saretzki, G, Carter, N P, Jackson, S P, **426**, 194
  DNA self-recognition in the structure of Pot1 bound to telomeric single-stranded DNA, *Letter to Nature*, Lei, M, Podell, E R, Baumann, P, Cech, T R, **426**, 198

telomeric repeats, Molecular biology: Telomere stutters superfluous, *News and views*, Pearson, H, **425**, 253

temperature, Sensing temperature without ion channels, *Brief communication*, Brown, B R, **421**, 495
  Climate change: Hot tips on temperature, *News and views*, Clarke, T, **423**, 598
  Development rate: Modelling developmental time and temperature, *Brief communication*, Rombough, P, **424**, 268
  Allometry: How reliable is the biological time clock?, *Brief communication*, Lopez-Urrutia, A, **424**, 269
  Reply: Allometry: How reliable is the biological time clock?, *Brief communication*, Gillooly, J F, Charnov, E L, Brown, J H, Savage, V M, West, G B, **424**, 270

terahertz devices, T-Ray specs, *News feature*, Zandonella, C, **424**, 721
termination factors, A cryo-electron microscopic study of ribosome-bound termination factor RF2, *Letter to Nature*, Rawat, U B S, Zavlalov, A V, Sengupta, J, Valle, M, Grassucci, R A, Linde, J, Vestergaard, B, Ehrenberg, M, Frank, J, **421**, 87
termination shock, Over the edge?, *News and views*, Fisk, L A, **426**, 21
  Voyager 1 excited the solar wind at a distance of ~85 AU from the Sun, *Letter to Nature*, Krimigis, S M, Decker, R B, Hill, M E, Armstrong, T P, Gloeckler, G, Hamilton, D C, Lanzerotti, L J, Roelof, E C, **426**, 45
  Enhancements of energetic particles near the heliospheric termination shock, *Letter to Nature*, McDonald, F B, Stone, E C, Cummings, A C, Heikkila, B, Lal, N, Webber, W R, **426**, 48
terrorism, Our Final Hour: A Scientist's Warning: How Terror, Error, and Environmental Disaster Threatens Humankind's Future in the Century — On Earth and Beyond/Our Final Center: Will the Human Race Survive the Twenty-First Century?, Rees, M, *Book review by* Brownlee, D, **423**, 803
  Brain region linked to post-terror stress, *News*, Cyranoski, D, **424**, 360
  Terrorist betting leaves defence agency fighting for autonomy, *News*, Brumfiel, G, **424**, 601
  T-Ray specs, *News feature*, Zandonella, C, **424**, 721
  Biotech headquarters hit by early morning pipe-bomb explosions, *News in brief*, **425**, 8
  Science and the war on terror, *Opinion*, **425**, 107
  It's time for the US and Muslims to work together, *Correspondence*, Dirie, A M, **425**, 237
  Middle East: nothing to fear except terrorism, *Correspondence*, Cohen, J S, **426**, 227
TESLA, Japan matches price of German collider, *News in brief*, **421**, 778
testicular cancer, Cancer: Germ-cell suspect in the male, *News and views*, Pilcher, H R, **426**, 514
testis, Testis determination requires insulin receptor family function in mice, *Letter to Nature*, Nef, S, Verma-Kuvari, S, Merenmies, J, Vassalli, J-D, Efstratiadis, A, Accili, D, Parada, L F, **426**, 291
testosterone, No dope, *News feature*, Knight, J, **426**, 114
Tethys Sea, Deep roots in Messinian salinity crisis, *Letter to Nature*, Duggen, S, Hoernle, K, van den Bogaard, P, Rupke, L, Phipps Morgan, J, **422**, 602
tetrachloroethene, Detoxification on vinyl chloride to ethene coupled to growth of an anaerobic bacterium, *Letter to Nature*, He, J, Ritalahti, K M, Yang, K-L, Koenigsberg, S S, Löffler, F E, **424**, 62
tetrahydrocannabinol, Medical tests of cannabis leave doctors in a haze, *News in brief*, **426**, 113
tetrahydrogestrinone, Drugs bust reveals athletes' secret steroid, *News*, Knight, J, **425**, 752
tetrapods, A uniquely specialized ear in early tetrapod, *Letter to Nature*, Clack, J A, Ahlberg, P E, Finney, S M, Dominguez Alonso, P, Robinson, J, Ketcham, R A, **425**, 65
texture, An off-normal fibre-like texture in thin films on single-crystal substrates, *Letter to Nature*, Detavernier, C, Ozcan, A S, Jordan-Sweet, J, Stach, E A, Tersoff, J, Ross, F M, Lavoie, C, **426**, 641
Thailand, A Middle Miocene hominoid from Thailand and orangutan origins, *Letter to Nature*, Chaimanee, Y, Jolly, D, Benammi, M, Tafforeau, P, Duzer, D, Moussa, I, Jaeger, J-J, **422**, 61
thaw, Alpine thaw breaks ice over permafrost's role, *News*, Schiermeier, Q, **424**, 712
The Scream, Volcano breathed life into Munch's Scream, *News in brief*, **426**, 747
theism, A Devil's Chaplain, Dawkins, R, Menon, L, *Book review by* Coyne, J A, **422**, 813
theology, Apocalyptic vision sees Newton book a date for doomsday, *News in brief*, **421**, 882
theoretical biology, Theoretical biology: Safeguards and spurs, *News and views*, Stearns, S C, **424**, 501
  Evolutionary capacitance as a general feature of complex gene networks, *Letter to Nature*, Bergman, A, Siegal, M L, **424**, 549
theoretical physics, The weight of expectation, *News and views*, Hoyle, C D, **421**, 899
theory of relativity, Faster Than The Speed of Light: The Story of a Scientific Speculation, Magueijo, J, *Book review by* Ellis, G, **422**, 563
thermal conductivity, Thermal physics: Heat in one dimension, *News and views*, Livi, R, Lepri, S, **421**, 327
thermal currents, Frigatebirds ride high on thermals, *Brief communication*, Weimerskirch, H, Chastel, O, Barbraud, C, Tostain, O, **421**, 333
thermal expansion, negative, Materials science: Zero-expansion plan, *News and views*, Sleight, A, **425**, 674
  Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **425**, 702
  Corrigendum: Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **426**, 584
thermal imaging, Asian airports use thermal imaging to hunt down SARS, *News in brief*, **423**, 8
thermal physics, Thermal physics: Heat in one dimension, *News and views*, Livi, R, Lepri, S, **421**, 327
thermal ratchets, Nonlinear physics: A brownian motor, *News and views*, Ball, P, **424**, 898
thermal re-radiation, Spin control for asteroids, *News and views*, Binzel, R P, **425**, 131
  The vector alignments of asteroid spins by thermal torques, *Article*, Vokrouhlicky, D, Nesvorny, D, Bottke, W F, **425**, 147
thermal runaway, Lithium-ion batteries: Runaway risk of forming toxic compounds, *Brief communication*, Hammami, A, Raymond, N, Armand, M, **424**, 635
thermal sensitivity, Development rate: Modelling developmental time and temperature, *Brief communication*, Rombough, P, **424**, 268
thermochronometry, Structure and thermal history of the H-chondrite parent asteroid revealed by thermochronometry, *Letter to Nature*, Trieloff, M, Jessberger, E K, Herrwerth, I, Hopp, J, Flénl, C, Ghelis, M, Bourot-Denise, M, Pellas, P, **422**, 502
thermocouples, Condensed matter physics: Thermopower to the people, *News and views*, Vining, C B, **423**, 391
thermodynamics, Obituary: Ilya Prigogine (1917–2003), *News and views*, Balescu, R, **424**, 30
  Water-driven structure transformation in nanoparticles at room temperature, *Letter to Nature*, Zhang, H, Gilbert, B, Huang, F, Banfield, J F, **424**, 1025
  Prof: The Life of Frederick Lindemann, *Book review*, Fort, A, Young, S, **425**, 770
thermoelectric cooling, Spin entropy as the likely source of enhanced thermopower in Na$_x$Co$_2$O$_4$, *Letter to Nature*, Wang, Y, Rogado, N S, Cava, R J, Ong, N P, **423**, 425
thermogenesis, Heat reward for insect pollinators, *Brief communication*, Seymour, R S, White, C R, Gibernau, M, **426**, 243
thermohaline circulation, The current climate, *Concepts*, Rahmstorf, S, **421**, 699
  Palaeo-oceanography: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **422**, 277
  correction: Deepwater variability in the Holocene epoch, *Brief communication*, Oppo, D W, McManus, J F, Cullen, J L, **423**, 400
  Global change: South dials north, *News and views*, Stocker, T F, **424**, 496
  Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation, *Letter to Nature*, Knorr, G, Lohmann, G, **424**, 532
  Cool Indonesian throughflow as a consequence of restricted surface layer flow, *Letter to Nature*, Gordon, A L, Susanto, R D, Vranes, K, **425**, 824
thermopower, Sensing temperature without ion channels, *Brief communication*, Brown, B R, **421**, 495
  Spin entropy as the likely source of enhanced thermopower in Na$_x$Co$_2$O$_4$, *Letter to Nature*, Wang, Y, Rogado, N S, Cava, R J, Ong, N P, **423**, 425
thermoremanent magnetization, Model for magnetic mystery, *News and views*, Zuber, M T, **421**, 119
thermosensors, Ion channels: Opposite thermosensor in fruitfly and mouse, *Brief communication*, Viswanath, V, Story, G M, Peier, A M, Petrus, M J, Lee, V M, Hwang, S W, Patapoutian, A, Jegla, T, **423**, 822
thin films, Retraction: Gate-induced superconductivity in a solution-processed organic polymer film, *Letter to Nature*, Schön, J H, Dodabalapur, A, Bao, Z, Kloc, Ch, Schenker, O, Batlogg, B, **422**, 92
  Retraction: Superconductivity in CaCuO2 as a result of field-effect doping, *Letter to Nature*, Schön, J H, Dorget, M, Beuran, F C, Zu, X Z, Arushanov, E, Deville Cavellin, C, Laguës, M, **422**, 92
  An off-normal fibre-like texture in thin films on single-crystal substrates, *Letter to Nature*, Detavernier, C, Ozcan, A S, Jordan-Sweet, J, Stach, E A, Tersoff, J, Ross, F M, Lavoie, C, **426**, 641
thin films, organic, Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films, *Letter to Nature*, Peumans, P, Uchida, S, Forrest, S R, **425**, 158
thin-film transistors, Electronic paper: Flexible active-matrix electronic ink display, *Brief communication*, Chen, Y, Au, J, Kazlas, P, Ritenour, A, Gates, H, McCreary, M, **423**, 136
  High-performance thin-film transistors using semiconductor nanowires and nanoribbons, *Letter to Nature*, Duan, X, Niu, C, Sahi, V, Chen, J, Parce, J W, Empedocles, S, Goldman, J L, **425**, 274
Third Reich, University faces up to wartime use of slaves, *News*, Abbott, A, **422**, 792
  Einstein in Berlin, Levenson, T, *Book review by* Dyson, F J, **422**, 811
  Hitler's Scientists: Science, War and the Devil's Pact, *Book review*, Cornwell, J, Macrakis, K, **425**, 766
Thorsen, Paul, Parapsychology post set up for long-dead benefactor, *News in brief*, **423**, 214
three-dimensional imaging, Three-dimensional imaging of atomic four-body processes, *Letter to Nature*, Schulz, M, Moshammer, R, Fischer, D, Kollmus, H, Madison, D H, Jones, S, Ullrich, J, **422**, 48
thrombospondin-1, Cancer: Building blood vessels, *News and views*, Pilcher, H R, **422**, 487
thunderstorms, Gigantic jets between a thundercloud and the ionosphere, *Letter to Nature*, Su, H T, Hsu, R R, Chen, A B, Wang, Y C, Hsiao, W S, Lai, W C, Lee, L C, Sato, M, Fukunishi, H, **423**, 974
thyasirids, Sulphide mining by the superextensile foot of symbiotic thyasirid bivalves, *Letter to Nature*, Dufour, S C, Felbeck, H, **426**, 65
thymine, Replication of a *cis-syn* thymine dimer at atomic resolution, *Letter to Nature*, Ling, H, Boudsocq, F, Plosky, B S, Woodgate, R, Yang, W, **424**, 1083
thymus, Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice, *Letter to Nature*, Sakaguchi, N, Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S, **426**, 454
thyroid stimulating hormone, Physiology: Foreman in the bone factory, *News and views*, Tromans, A, **425**, 909
thyroxine, Light-induced hormone conversion of T$_4$ to T$_3$ regulates photoperiodic response of gonads in birds, *Letter to Nature*, Yoshimura, T, Yasuo, S, Watanabe, M, Iigo, M, Yamamura, T, Hirunagi, K, Ebihara, S, **426**, 178
Tianming, Gu, Researcher faces life in prison for revenge radiation poisoning, *News in brief*, **425**, 552
Tibet, Constant elevation of southern Tibet over the past 15 million years, *Letter to Nature*, Spicer, R A, Harris, N B W, Widdowson, M, Herman, A B, Guo, S, Valdes, P J, Wolfe, J A, Kelley, S P, **421**, 622
  DNA lab welcomes Dalai Lama to Tibetan science community, *News*, Check, E, **425**, 335
Tiburonia granrojo, Giant jellyfish leaves researchers red-faced, *News in brief*, **423**, 214
Tidewater glaciers, Tidewater glaciers move at their own pace, *Correspondence*, Pfeffer, W T, **426**, 602
tight junctions, Just mix and patch, *News and views*, Mostov, K, Zegers, M, **422**, 267
  Segregation of receptor and ligand regulates activation of epithelial growth factor receptor, *Letter to Nature*, Vermeer, P D, Einwalter, L A, Moninger, T O, Rokhlina, T, Kern, J A, Zabner, J, Welsh, M J, **422**, 322
tillering, Control of tillering in rice, *Letter to Nature*, Li, X, Qian, Q, Fu, Z, Wang, Y, Xiong, G, Zeng, D, Wang, X, Liu, X, Teng, S, Hiroshi, F, Yuan, M, Luo, D, Han, B, Li, J, **422**, 618
TIM-1 protein, Chromosome cohesion is regulated by a clock gene paralogue TIM-1, *Letter to Nature*, Chan, R C, Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J, **423**, 1002
Timaeus, Timaeus's insight on the shape of the Universe, *Correspondence*, Giomini, C, **425**, 899
time, Astronomers leap to defence of extra seconds in time debate, *News*, Brumfiel, G, **423**, 671
  Einstein's Clocks and Poincaré's Maps: Empires of Time, Galison, P, *Book review by* Gray, J, **424**, 879
time-resolved X-ray diffraction, Femtosecond X-ray measurement of coherent lattice vibrations near the Lindemann stability limit, *Letter to Nature*, Sokolowski-Tinten, K, Blome, C, Blums, J, Cavalleri, A, Dietrich, C, Tarasevitch, A, Uschmann, I, Forster, E, Kammier, M, Horn-von-Hoegen, M, von der Linde, D, **422**, 287
timekeeping, The times, they are a-changin', *News feature*, Adam, D, **421**, 207
TIMELESS protein, Chromosome cohesion is regulated by a clock gene paralogue TIM-1, *Letter to Nature*, Chan, R C, Chan, A, Jeon, M, Wu, T F, Pasqualone, D, Rougvie, A E, Meyer, B J, **423**, 1002
timepieces, The times, they are a-changin', *News feature*, Adam, D, **421**, 207
TIMP-2 protein, Cardiovascular biology: Signalling silenced, *News and views*, Conway, E M, Carmeliet, P, **425**, 139
tip jet events, Oceanography: Stirring time in the Atlantic, *News and views*, Dickson, B, **424**, 141
  Deep convection in the Irminger Sea forced by the Greenland tip jet, *Article*, Pickart, R S, Spall, M A, Ribergaard, M H, Moore, G W K, Milliff, R F, **424**, 152
tissue engineering, The beat goes on, *News feature*, Zandonella, C, **421**, 884
tissue repair, Tissue repair: Gel brought to heal in mice, *News and views*, Pilcher, H R, **425**, 678
titan arum, Record-breaking bloom kicks up a stink, *News in brief*, **423**, 472
titin, Hidden complexity in the mechanical properties of titin, *Letter to Nature*, Williams, P M, Fowler, S B, Best, R B, Toca-Herrera, J L, Scott, K A, Steward, A, Clarke, J, **422**, 446
Tob protein, Cancer: Brake for cell division, *News and views*, Heemels, M-T, **423**, 238
tobacco industry, Academics fume as university refuses to reject tobacco dollars, *News*, Dalton, R, **422**, 361
  Should tobacco ban rule out governments too?, *Correspondence*, Jope, R S, **422**, 802
tobacco plants, Direct measurement of the transfer rate of chloroplast DNA into the nucleus, *Letter to Nature*, Huang, C Y, Ayliffe, M A, Timmis, J N, **422**, 72
  The plastid *clpP1* protease gene is essential for plant development, *Letter to Nature*, Kuroda, H, Maliga, P, **425**, 86
  The tobacco aquaporin NtAQP1 is a membrane CO$_2$ pore with physiological functions, *Letter to Nature*, Uehlein, N, Lovisolo, C, Siefritz, F, Kadenhoff, R, **425**, 734
TOC1 protein, Targeted degradation of TOC1 by ZTL modulates circadian function in *Arabidopsis thaliana*, *Letter to Nature*, MP, Kim, W-Y, Somers, D E, Kay, S A, **426**, 567
Tof1 protein, S-phase checkpoint proteins Tof1 and Mrc1 form a stable replication-pausing complex, *Letter to Nature*, Katou, Y, Kanoh, Y, Bando, M, Noguchi, H, Tanaka, H, Ashikari, T, Sugimoto, K, Shirahige, K, **424**, 1078
tokomak reactor, Fusion project back on track as US returns to the fold, *News*, Brumfiel, G, **421**, 563
  France and Japan lock horns in battle to host research reactor, *News*, Butler, D, **426**, 483
Toll proteins, The immune response of *Drosophila*, *Review article*, Hoffmann, J A, **426**, 33
  Developmental biology: Serpin takes its toll, *News and views*, Heemels, M-T, **426**, 514
Toll-interacting protein, Immunology: Vaccinia on the Toll road, *News and views*, Heemels, M-T, **421**, 907
Toll-like receptors, Interleukin-23 rather than interleukin-12 is the critical cytokine for autoimmune inflammation of the brain, *Letter to Nature*, Cua, D J, Sherlock, J, Chen, Y, Murphy, C A, Joyce, B, Seymour, B, Lucian, L, To, W, Kwan, S, Churakova, T, Zu-

- rawski, S, Wiekowski, M, Lira, S A, Gorman, D, Kastelein, R A, Sedgwick, J D, **421**, 744
  - Immunology: Vaccinia on the Toll road, *News and views*, Heemels, M-T, **421**, 907
  - Immunology: Another toll road, *News and views*, Yeh, W-C, Chen, N-J, **424**, 736
  - Identification of *Lps2* as a key transducer of MyD88-independent TIR signalling, *Article*, Hoebe, K, Du, X, Georgel, P, Janssen, E, Tabeta, K, Kim, S O, Goode, J, Lin, P, Mann, N, Mudd, S, Crozat, K, Sovath, S, Han, J, Beutler, B, **424**, 743
- **TOM protein**, Machinery for protein sorting and assembly in the mitochondrial outer membrane, *Letter to Nature*, Wiedemann, N, Kozjak, V, Chacinska, A, Schönfisch, B, Rospert, S, Ryan, M T, Pfanner, N, Meisinger, C, **424**, 565
- **Tom70 protein**, Molecular chaperones: Plugging the transport gap, *News and views*, Ellis, R J, **421**, 801
- **tomatoes**, High-tech tomatoes get luxury residence, *News in brief*, **421**, 882
- **Tomonaga–Luttinger liquid**, Condensed-matter physics: Illuminating behaviour, *News and views*, Bockrath, M, **426**, 511
  - Direct observation of Tomonaga–Luttinger-liquid state in carbon nanotubes at low temperatures, *Letter to Nature*, Ishii, H, Kataura, H, Shiozawa, H, Yoshioka, H, Otsubo, H, Takayama, Y, Miyahara, T, Suzuki, S, Achiba, Y, Nakatake, M, Narimura, T, Higashiguchi, M, Shimada, K, Namatame, H, Taniguchi, M, **426**, 540
- **tool users**, An energetic stellar outburst accompanied by circumstellar light echoes, *Letter to Nature*, Bond, H E, Henden, A, Levay, Z G, Panagia, N, Sparks, W B, Starrfield, S, Wagner, R M, Corradi, R L M, Munari, U, **422**, 405
- **tools**, Evolutionary biology: Teeth as tools, *News and views*, Weil, A, **422**, 128
- **TOR kinases**, Genetics: Influence of TOR kinase on lifespan in C. elegans, *Brief communication*, Vellai, T, Takacs-Vellai, K, Zhang, Y, Kovacs, A L, Orosz, L, Muller, F, **426**, 620
- **toroids**, Investigation of the obscuring circumnuclear torus in the active galaxy Mrk231, *Letter to Nature*, Klöckner, H-R, Baan, W A, Garrett, M A, **421**, 821
  - Energetic neutral atoms from a trans-Europa gas torus at Jupiter, *Letter to Nature*, Mauk, B H, Mitchell, D G, Krimigis, S M, Roelof, E C, Paranicas, C P, **421**, 920
  - Ultra-high-*Q* toroid microcavity on a chip, *Letter to Nature*, Armani, D K, Kippenberg, T J, Spillane, S M, Vahala, K J, **421**, 925
- ***Torpedo***, Cell biology: Torpedo smart gel, *News and views*, Pilcher, H R, **423**, 30
  - Structure and gating mechanism of the acetylcholine receptor pore, *Article*, Miyazawa, A, Fujiyoshi, Y, Unwin, N, **423**, 949
- **torque**, Structural transitions and elasticity from torque measurements on DNA, *Letter to Nature*, Bryant, Z, Stone, M D, Gore, J, Smith, S B, Cozzarelli, N R, Bustamante, C, **424**, 338
- **touch**, Long-range signalling by touch, *News and views*, Cohen, S M, **426**, 503
- **toxicology**, Toxicology rethinks its central belief, *Commentary*, Calabrese, E J, Baldwin, L A, **421**, 691
- **Trade Related Aspects of Intellectual Property Rights** (**TRIPS**), Information Feudalism: Who Owns the Knowledge Economy?, Drahos, P, Braithwaite, J, *Book review by* Thomas, S, **421**, 577
- **trade war**, Trade war: what is it good for?, *Opinion*, **423**, 367
  - Trade war looms as US launches challenge over transgenic crops, *News*, Knight, J, **423**, 369
- **traditional medicines**, Spiritual link is part of traditional knowledge, *Correspondence*, Kitchikeesic Juden, L, **421**, 313
- **TRAF**, CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members, *Letter to Nature*, Trompouki, E, Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G, **424**, 793
  - The tumour suppressor CYLD negatively regulates NF-κB signalling by deubiquitination, *Letter to Nature*, Kovalenko, A, Chable-Bessia, C, Cantarella, G, Israel, A, Wallach, D, Courtois, G, **424**, 801
- **traffic and transport issues**, London gears up for road congestion charge, *News*, Adam, D, **421**, 679
  - Microfluidics: Traffic flow, *News and views*, Helmer, M, **423**, 238
- **transcription**, Transcription regulation and animal diversity, *Review article*, Levine, M, Tjian, R, **424**, 147
  - Erratum: Links between signal transduction, transcription and adhesion in epithelial bud development, *Letter to Nature*, Jamora, C, DasGupta, R, Kocieniewski, P, Fuchs, E, **424**, 974
- **transcription factor IIB**, Transcription factor IIB acetylates itself to regulate transcription, *Letter to Nature*, Choi, C H, Hiromura, M, Usheva, A, **424**, 965
- **transcription factor IIIB**, Crystal structure of a transcription factor IIIB core interface ternary complex, *Letter to Nature*, Juo, Z S, Kassavetis, G A, Wang, J, Geiduschek, E P, Sigler, P B, **422**, 534
- **transduction channels**, Ion channels: Hearing aid, *News and views*, Dumont, R A, Gillespie, P G, **424**, 28
- **transendothelial migration**, Targeted recycling of PECAM from endothelial surface-connected compartments during diapedesis, *Letter to Nature*, Mamdouh, Z, Chen, X, Pierini, L M, Maxfield, F R, Muller, W A, **421**, 748
- **transfer-messenger RNA**, Crystal structure of the transfer-RNA domain of transfer-messenger RNA in complex with SmpB, *Letter to Nature*, Gutmann, S, Haebel, P W, Metzinger, L, Sutter, M, Felden, B, Ban, N, **424**, 699
- **transforming growth factor-β**, Medicine: Smoke signals for lung disease, *News and views*, Roberts, A B, **422**, 130
  - Loss of integrin αvβ6-mediated TGF-β activation causes Mmp12-dependent emphysema, *Letter to Nature*, Morris, D G, Huang, X, Kaminski, N, Wang, Y, Shapiro, S D, Dolganov, G, Glick, A, Sheppard, D, **422**, 169
  - Smad-dependent and Smad-independent pathways in TGF-β family signalling, *Review article*, Derynck, R, Zhang, Y E, **425**, 577
- **transgenic animals**, Transgenic salmon still out in the cold in United States, *News*, Hoag, H, **421**, 304
  - University grilled over bacon chops' transgenic link, *News in brief*, **421**, 682
  - Genetic-engineering projects falling by the wayside in Europe, *News in brief*, **422**, 106
  - Dolly firm in trouble after transgenic milk fails to flow, *News*, Hogan, J, **423**, 907
  - Piglets add some colour to transgenic story, *News*, Nosengo, N, **424**, 604
  - GloFish casts light on murky policing of transgenic animals, *News*, Knight, J, **426**, 372
- **transgenic crops**, India joins dissenters in row over transgenic food aid, *News in brief*, **421**, 103
  - Transgenic crop trial's gene flow turns weeds into wimps, *News*, Adam, D, **421**, 462
  - Missing the big picture, *Editorial*, **421**, 675
  - India debates results of its first transgenic cotton crop, *News*, Jayaraman, K S, **421**, 681
  - Concern about Japan's unclear biotech regulations, *Correspondence*, Watanabe, K N, **421**, 689
  - Ministers back gene-crop advisers, *News*, Butler, D, **421**, 775
  - Poor farmers warned against Internet transgenic crop deals, *News*, Dalton, R, **421**, 776
  - Gene flow might turn wimps into superweeds, *Correspondence*, Muth, N, **421**, 785
  - High-tech tomatoes get luxury residence, *News in brief*, **421**, 882
  - Novel and conventional paths to a better banana, *Correspondence*, Jones, D, **421**, 889
  - Agency 'ignoring its advisors' over Bt maize, *News*, Knight, J, **422**, 5
  - A little protectionism goes a lóng way, *Opinion*, **422**, 99
  - Tougher rules aim to prevent gene flow into crops, *News*, Hoag, H, **422**, 103
  - Genetic-engineering projects falling by the wayside in Europe, *News in brief*, **422**, 106
  - Against the grain, *News feature*, Macilwain, C, **422**, 111
  - Biotech firms join charities in drive to help Africa's farms, *News*, Hoag, H, **422**, 246
  - Danish study hints at biodiversity boost from transgenic crops, *News in brief*, **422**, 250
  - Plants breeders see benefit of growth in genomics, *News in brief*, **422**, 250
  - Trade war: what is it good for?, *Opinion*, **423**, 367
  - Trade war looms as US launches challenge over transgenic crops, *News*, Knight, J, **423**, 369
  - Divisions sink US consensus effort on transgenic food, *News*, Knight, J, **423**, 574
  - Debate, what debate?, *Opinion*, **423**, 669
  - Public input sought on transgenic farming, *News*, Tilstone, C, **423**, 672
  - Traditional wheat breeder fights for funding, *News*, Dalton, R, **423**, 790
  - A flight of fancy, *Opinion*, **423**, 903
  - Europe finds transgenic food hard to swallow, *News*, Giles, J, **424**, 116
  - Pest resistance feared as farmers flout rules, *News*, Clarke, T, **424**, 116
  - Don't believe the hype, *Opinion*, **424**, 237
  - A little knowledge, *News feature*, Brumfiel, G, **424**, 246
  - UK experts map out route to licensing transgenic crops, *News*, Giles, J, **424**, 358
  - Diversity in food technology, *Opinion*, **424**, 473
  - Flawed science underlies laws on transgenic crops, *Correspondence*, Sandermann Jr, H, **424**, 613
  - Natural decaf could brew trouble for farmers, *Correspondence*, Baker, P S, **424**, 613
  - Unnatural selection, *Concepts*, Snow, A, **424**, 619
  - Consumers don't want GM, so why use it?, *Correspondence*, Melchett, P, **424**, 995
  - Breeding to tackle blight without copper or GM, *Correspondence*, Duncan, J M, **425**, 15
  - US reflects on flying eye for transgenic crops, *News*, Knight, J, **425**, 112
  - UK public opposes government on transgenic crops, *News*, Giles, J, **425**, 331
  - Brazilian ruling sows seeds for transgenic future, *News in brief*, **425**, 442
  - Don't worry (It's Safe to Eat). The True Story of GM Food, BSE and Foot and Mouth, Rowell, A, *Book review by* Woolhouse, M, **425**, 454
  - Flaws undermine results of UK biotech debate, *Correspondence*, Campbell, S, Townsend, E, **425**, 559
  - Time to choose, *News feature*, Aldhous, P, **425**, 655
  - Damned if they do, damned if they don't, *News feature*, Giles, J, **425**, 656
  - GM world view, *News feature*, **425**, 658
  - Biosafety trials darken outlook for transgenic crops in Europe, *News*, Giles, J, **425**, 751
  - US beefs up policing of transgenic crop trials, *News in brief*, **425**, 892
  - A continent divided, *News feature*, Masood, E, **426**, 224
  - Organic brewery ferments opposition to GM crops, *News in brief*, **426**, 488
  - GM-debate methodology works in the real world, *Correspondence*, Grove-White, R, **426**, 495
  - Scientists attack industrial influence, *News*, Knight, J, **426**, 741
- **transgenic fishes**, Transgenic salmon still out in the cold in United States, *News*, Hoag, H, **421**, 304
  - Objective assessment of transgenic salmon, *Correspondence*, Gray, G, **421**, 889
  - California gives red light to sale of transgenic GloFish, *News in brief*, **426**, 596
- **transgenic plants**, Widespread horizontal transfer of mitochondrial genes in flowering plants, *Letter to Nature*, Bergthorsson, U, Adams, K L, Thomason, B, Palmer, J D, **424**, 197
- **transient luminous events**, Atmospheric physics: Electric jets, *News and views*, Pasko, V P, **423**, 927
- **transistors**, Ballistic carbon nanotube field-effect transistors, *Letter to Nature*, Javey, A, Guo, J, Wang, Q, Lundstrom, M, Dai, H, **424**, 654
  - Single-electron transistor of a single organic molecule with access to several redox states, *Letter to Nature*, Kubatkin, S, Danilov, A, Hjort, M, Cornil, J, Brédas, J-L, Stuhr-Hansen, N, Hedegard, P, Bjornholm, T, **425**, 698
- **translocases**, Machinery for protein sorting and assembly in the mitochondrial outer membrane, *Letter to Nature*, Wiedemann, N, Kozjak, V, Chacinska, A, Schönfisch, B, Rospert, S, Ryan, M T, Pfanner, N, Meisinger, C, **424**, 565
- **translocon-associated protein** (**TRAP**), Cell biology: Prion protein, too, shall pass, *News and views*, Bucci, M, **421**, 907
- **translocons**, Cell biology: Prion protein, too, shall pass, *News and views*, Bucci, M, **421**, 907
- **transmissible spongiform encephalopathies**, How the Cows Turned Mad, Schwartz, M, Schneider, E, *Book review by* Race, R E, **423**, 118
  - Prion diseases: Cannibals and garbage piles, *News and views*, Aguzzi, A, Heikenwalder, M, **423**, 127
  - Prion diseases: A nucleic-acid accomplice, *News and views*, Caughey, B, Kocisko, D A, **425**, 673
  - Academy calls for improved tests to beat prion disease, *News*, Knight, J, **426**, 216
- **transpiration**, Getting to the heart of transpiration in plants, *Correspondence*, Tanner, W, **424**, 613
  - The role of stomata in sensing and driving environmental change, *Review article*, Hetherington, A M, Woodward, F I, **424**, 901
- **transport**, Hydrogen cars fuel debate on basic research, *News*, Brumfiel, G, **422**, 104
  - Car-safety lobby on collision course with researchers, *News*, Reichhardt, T, **423**, 675
- **transporters**, Neuroscience: Transport delays, *News and views*, Pilcher, H R, **425**, 573
- **transposons**, An active DNA transposon family in rice, *Letter to Nature*, Jiang, N, Bao, Z, Zhang, X, Hirochika, H, Eddy, S R, McCouch, S R, Wessler, S R, **421**, 163
  - The plant MITE *mPing* is mobilized in anther culture, *Letter to Nature*, Kikuchi, K, Terauchi, K, Wada, M, Hirano, H-Y, **421**, 167
  - Mobilization of a transposon in the rice genome, *Letter to Nature*, Nakazaki, T, Okumoto, Y, Horibata, A, Yamahira, S, Teraishi, M, Nishida, H, Inoue, H, Tanisaka, T, **421**, 170
  - Darwin's Blind Spot: Evolution Beyond Natural Selection, Ryan, F, *Book review by* Frank, S, A, **421**, 579
  - Transposon silencing in the *Caenorhabditis elegans* germ line by natural RNAi, *Letter to Nature*, Sijen, T, Plasterk, R H A, **426**, 310
- **transsaccadic integration**, Optimal transsaccadic integration explains distorted spatial perception, *Letter to Nature*, Niemeier, M, Crawford, J D, Tweed, D B, **422**, 76
- **trastuzumab**, Structure of the extracellular region of HER2 alone and in complex with the Herceptin Fab, *Letter to Nature*, Cho, H-S, Mason, K, Ramyar, K X, Stanley, A M, Gabelli, S B, Denney Jr, D W, Leahy, D J, **421**, 756
- **traumatic stress disorder**, Does Stress Damage the Brain? Understanding Trauma-related Disorders from a Mind-Body Perspective, Bremner, J D, *Book review by* Elbert, T, Rockstroh, B, **421**, 477
- **travel awards**, Travel grants available for genetics congress, *Correspondence*, Griffiths, A J F, **421**, 313
- **TRCP proteins**, TRP channels as cellular sensors, *Review article*, Clapham, D E, **426**, 517
- **trees**, Increased CO_2 uncouples growth from isoprene emission in an agriforest ecosystem, *Letter to Nature*, Rosenstiel, T N, Potosnak, M J, Griffin, K L, Fall, R, Monson, R K, **421**, 256
  - Plant ecology: Tree-species competition and coexistence, *Brief communication*, Lusk, C, **422**, 580
  - Plant ecology: Coexistence of tropical tree species, *Brief communication*, Baker, P J, Wilson, J S, **422**, 581
  - Reply: Plant ecology: Coexistence of tropical tree species, *Brief communication*, Kelly, C, Bowler, M G, **422**, 582
  - Biogeochemistry: Heavy metal out of air, *News and views*, Lincoln, T, **423**, 395
  - The missing link in Ginkgo evolution, *Brief communication*, Zhou, Z, Zheng, S, **423**, 821
  - Urbanization effects on tree growth in the vicinity of New York City, *Letter to Nature*, Gregg, J W, Jones, C G, Dawson, T E, **424**, 183
  - Amateur anglers cast as nature monitors, *News in brief*, **424**, 362
  - Ecology: Human past and forest present, *News and views*, Whitfield, J, **425**, 143
  - Corrigendum: Invariant scaling relations across tree-dominated communities, *Letter to Nature*, Enquist, B J, Niklas, K J, **425**, 741
- **tri-iodothyronine**, Light-induced hormone conversion of T_4 to T regulates photoperiodic response of gonads in birds, *Letter to Nature*, Yoshimura, T, Yasuo, S, Watanabe, M, Iigo, M, Yamamura, T, Hirunagi, K, Ebihara, S, **426**, 178
- **Triassic period**, Palaeontology: A polydactylous amniote from the Triassic period, *Brief communication*, Wu, X-C, Li, Z, Zhou, B-C, Dong, Z-M, **426**, 516

Tribolium castaneum, The genes *orthodenticle* and *hunchback* substitute for *bicoid* in the beetle *Tribolium*, *Letter to Nature*, Schroder, R, **422**, 621

trichloroethene, Detoxification on vinyl chloride to ethene coupled to growth of an anaerobic bacterium, *Letter to Nature*, He, J, Ritalahti, K M, Yang, K-L, Koenigsberg, S S, Löffler, F E, **424**, 62

Trif protein, Immunology: Another toll road, *News and views*, Yeh, W-C, Chen, N-J, **424**, 736

Identification of *Lps2* as a key transducer of MyD88-independent TIR signalling, *Article*, Hoebe, K, Du, X, Georgel, P, Janssen, E, Tabeta, K, Kim, S O, Goode, J, Lin, P, Mann, N, Mudd, S, Crozat, K, Sovath, S, Han, J, Beutler, B, **424**, 743

trinitrotoluene, Explosives: A microsensor for trinitrotoluene vapour, *Brief communication*, Pinnaduwage, L A, Gehl, A, Hedden, D L, Muralidharan, G, Thundat, T, Lareau, R T, Sulchek, T, Manning, L, Rogers, B, Jones, M, Adams, J D, **425**, 474

Tripedalia cystophora, Zoology: Light touch on the rudder, *News and views*, Lincoln, T, **425**, 360

Trithorax, Methylation at lysine 4 of histone H3 in ecdysone-dependent development of *Drosophila*, *Letter to Nature*, Sedkov, Y, Cho, E, Petruk, S, Cherbas, L, Smith, S T, Jones, R S, Cherbas, P, Canaani, E, Jaynes, J B, Mazo, A, **426**, 78

***trk* genes**, Neurobiology: Signals that make waves, *News and views*, Reichardt, L F, **426**, 25

TrkB, Truncated TrkB-T1 mediates neurotrophin-evoked calcium signalling in glia cells, *Letter to Nature*, Rose, C R, Blum, R, Pichler, B, Lepier, A, Kafitz, K W, Konnerth, A, **426**, 74

TRMP7, Cell biology: Channel taps magnesium, *News and views*, Pearson, H, **424**, 630

tropical biology, Foundations of Tropical Forest Biology: Classic Papers with Commentaries, Chazdon, R L, Whitmore, T C, *Book review by* Zagt, R J, **421**, 20

tropical regions, Global change: Leads, lags and the tropics, *News and views*, Dunbar, R B, **421**, 121

tropomyosin, Structure of the core domain of human cardiac troponin in the Ca^{2+}-saturated form, *Article*, Takeda, S, Yamashita, A, Maeda, K, Maeda, Y, **424**, 35

troponin, Structure of the core domain of human cardiac troponin in the Ca^{2+}-saturated form, *Article*, Takeda, S, Yamashita, A, Maeda, K, Maeda, Y, **424**, 35

troposphere, Detection of human influence on sea-level pressure, *Letter to Nature*, Gillett, N P, Zwiers, F W, Weaver, A J, Stott, P A, **422**, 292

Detection of bromine monoxide in a volcanic plume, *Letter to Nature*, Bobrowski, N, Honninger, G, Galle, B, Platt, U, **423**, 273

Reduction of soil carbon formation by tropospheric ozone under increased carbon dioxide levels, *Letter to Nature*, Loya, W M, Pregitzer, K S, Karberg, N J, King, J S, Giardina, C P, **425**, 705

Trounson, Alan, Head of Australian stem-cell centre quits to return to science, *News in brief*, **424**, 716

TRP channels, TRP channels as cellular sensors, *Review article*, Clapham, D E, **426**, 517

TRPV channels, A TRPV family ion channel required for hearing in *Drosophila*, *Letter to Nature*, Kim, J, Chung, Y D, Park, D-y, Choi, S, Shin, D W, Soh, H, Lee, H W, Son, W, Yim, J, Park, C-S, Kernan, M J, Kim, C, **424**, 81

TRPV1 receptors, Sensory transduction: Feel the heat, *News and views*, Craven, R, **423**, 496

TRPV4 channels, Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels, *Letter to Nature*, Watanabe, H, Vriens, J, Prenen, J, Droogmans, G, Voets, T, Nilius, B, **424**, 434

TRR protein, Methylation at lysine 4 of histone H3 in ecdysone-dependent development of *Drosophila*, *Letter to Nature*, Sedkov, Y, Cho, E, Petruk, S, Cherbas, L, Smith, S T, Jones, R S, Cherbas, P, Canaani, E, Jaynes, J B, Mazo, A, **426**, 78

Trypanosoma brucei, Mechanism of genetic exchange in American trypanosomes, *Letter to Nature*, Gaunt, M W, Yeo, M, Frame, I A, Stothard, J R, Carrasco, H J, Taylor, M C, Mena, S S, Veazey, P, Miles, G A J, Acosta, N, Rojas de Arias, A, Miles, M A, **421**, 936

Trypanosoma brucei rhodesiense, Apolipoprotein L-I is the trypanosome lytic factor of human serum, *Letter to Nature*, Vanhamme, L, Paturiaux-Hanocq, F, Poelvoorde, P, Nolan, D P, Lins, L, Van Den Abbeele, J, Pays, A, Tebabi, P, Van Xong, H, Jacquet, A, Moguilevsky, N, Dieu, M, Kane, J P, De Baetselier, P, Brasseur, R, Pays, E, **422**, 83

Trypanosoma cruzi, Mechanism of genetic exchange in American trypanosomes, *Letter to Nature*, Gaunt, M W, Yeo, M, Frame, I A, Stothard, J R, Carrasco, H J, Taylor, M C, Mena, S S, Veazey, P, Miles, G A J, Acosta, N, Rojas de Arias, A, Miles, M A, **421**, 936

trypanosomes, Mechanism of genetic exchange in American trypanosomes, *Letter to Nature*, Gaunt, M W, Yeo, M, Frame, I A, Stothard, J R, Carrasco, H J, Taylor, M C, Mena, S S, Veazey, P, Miles, G A J, Acosta, N, Rojas de Arias, A, Miles, M A, **421**, 936

tsunamis, Unusually large earthquakes inferred from tsunami deposits along the Kuril trench, *Letter to Nature*, Nanayama, F, Satake, K, Furukawa, R, Shimokawa, K, Atwater, B F, Shigeno, K, Yamaki, S, **424**, 660

Earthquake makes waves for tsunami models, *News*, Cyranoski, D, **425**, 649

tuberculosis, Gates ploughs millions into plan for assault on killer diseases, *News*, Butler, D, **421**, 461

TB medic wins global health post, *News*, Butler, D, **421**, 463

Disease spread leads Britain to pull plug on trial badger cull, *News*, Giles, J, **426**, 4

Developing-world health: the fightback starts here, *News feature*, Butler, D, **426**, 754

Ecology: Badger cull culled, *News and views*, Roper, T J, **426**, 782

Impact of localized badger culling on tuberculosis incidence in British cattle, *Letter to Nature*, Donnelly, C A, Woodroffe, R, Cox, D R, Bourne, J, Gettinby, G, Le Fevre, A M, McInerney, J P, Morrison, W I, **426**, 834

tubulin, Cell biology: Tubulin acetylation and cell motility, *Brief communication*, Palazzo, A, Ackerman, B, Gundersen, G G, **421**, 230

Processivity of the single-headed kinesin KIF1A through biased binding to tubulin, *Letter to Nature*, Okada, Y, Higuchi, H, Hirokawa, N, **424**, 574

TUG, Functional cloning of TUG as a regulator of GLUT4 glucose transporter trafficking, *Letter to Nature*, Bogan, J S, Hendon, N, McKee, A E, Tsao, T-S, Lodish, H F, **425**, 727

tumour necrosis factor, Inflammation: A nervous connection, *News and views*, Libert, C, **421**, 328

Nicotinic acetylcholine receptor α7 subunit is an essential regulator of inflammation, *Letter to Nature*, Wang, H, Yu, M, Ochani, M, Amella, C A, Tanovic, M, Susarla, S, Li, J H, Wang, H, Yang, H, Ulloa, L, Al-Abed, Y, Czura, C J, Tracey, K J, **421**, 384

Ligand-receptor binding revealed by the TNF family member TALL-1, *Article*, Liu, Y, Hong, X, Kappler, J, Jiang, L, Zhang, R, Xu, L, Pan, C-H, Martin, W E, Murphy, R C, Shu, H-B, Dai, S, Zhang, G, **423**, 49

Cell biology: Rafting for dear life, *News and views*, Heemels, M-T, **423**, 496

Cell signalling: Cell survival and a Gadd-45-factor deficiency, *Brief communication*, Amanullah, A, Azam, N, Balliet, A, Hollander, C, Hoffman, B, Fornace Jr, A, Liebermann, D, **424**, 741

Reply: Cell signalling: Cell survival and a Gadd-45-factor deficiency, *Brief communication*, Zazzeroni, F, Papa, S, De Smaele, E, Franzoso, G, **424**, 742

CYLD is a deubiquitinating enzyme that negatively regulates NF-κB activation by TNFR family members, *Letter to Nature*, Trompouki, E, Hatzivassiliou, E, Tsichritzis, T, Farmer, H, Ashworth, A, Mosialos, G, **424**, 793

Loss of the cylindromatosis tumour suppressor inhibits apoptosis by activating NF-κB, *Letter to Nature*, Brummelkamp, T R, Nijman, S M B, Dirac, A M G, Bernards, R, **424**, 797

tumour suppression, Integration of interferon-α/β signalling to p53 responses in tumour suppression and antiviral defence, *Article*, Takaoka, A, Hayakawa, S, Yanai, H, Stoiber, D, Negishi, H, Kikuchi, H, Sasaki, S, Imai, K, Shibue, T, Honda, K, Taniguchi, T, **424**, 516

Essential role for the peroxiredoxin Prdx1 in erythrocyte antioxidant defence and tumour suppression, *Letter to Nature*, Neumann, C A, Krause, D S, Carman, C V, Das, S, Dubey, D P, Abraham, J L, Bronson, R T, Fujiwara, Y, Orkin, S H, Van Etten, R A, **424**, 561

Chemokine receptor CXCR4 downregulated by von Hippel-Lindau tumour suppressor pVHL, *Letter to Nature*, Staller, P, Sulitkova, J, Lisztwan, J, Moch, H, Oakeley, E J, Krek, W, **425**, 307

tumour suppressors, Cell biology: Tumour suppressors in the wrecking yard, *News and views*, Plicher, H R, **422**, 487

Tumour suppressors: Timing will tell, *News and views*, Berns, A, **424**, 140

Cancer: Protective packaging for DNA, *News and views*, Downs, J A, Jackson, S P, **424**, 732

The tumour suppressor CYLD negatively regulates NF-κB signalling by deubiquitination, *Letter to Nature*, Kovalenko, A, Chable-Bessia, C, Cantarella, G, Israel, A, Wallach, D, Courtois, G, **424**, 801

tunnelling, Optics: Ado about nothing much?, *News and views*, Buttiker, M, Washburn, S, **422**, 271

Optics: Mechanism for 'superluminal' tunnelling, *Brief communication*, Winful, H G, **424**, 638

Reply: Optics: Mechanism for 'superluminal' tunnelling, *Brief communication*, Buttiker, M, Washburn, S, **424**, 638

turbulence, Measuring intense rotation and dissipation in turbulent flows, *Letter to Nature*, Zeff, B W, Lanterman, D D, McAllister, R, Roy, R, Kostelich, E J, Lathrop, D P, **421**, 146

Fluid dynamics: Turbulence made hard, *News and views*, Ball, P, **421**, 597

Mixing with latitude, *News and views*, Garrett, C, **422**, 477

Reduced mixing from the breaking of internal waves in equatorial waters, *Letter to Nature*, Gregg, M C, Sanford, T B, Winkel, D P, **422**, 513

Turbulence: Suddenly it's chaos, *News and views*, Pickett, G, **424**, 1002

An intrinsic velocity-independent criterion for superfluid turbulence, *Letter to Nature*, Finne, A P, Araki, T, Blaauwgeers, R, Eltsov, V B, Kopnin, N B, Krusius, M, Skrbek, L, Tsubota, M, Volovik, G E, **424**, 1022

turtles, Animal behaviour: Homing is a breeze for sea turtles, *News and views*, Sims, D W, **423**, 128

Mock turtles, *News feature*, Dalton, R, **423**, 219

The Biology of Sea Turtles, Volume II, Lutz, P L, Musick, K A, Wyneken, J, *Book review by* Mrosovsky, N, **423**, 225

twin studies, Altered states, *News feature*, Dennis, C, **421**, 686

Two-Micron All Sky Survey, View of space expands in both directions, *News in brief*, **426**, 113

typhoons, Atmospheric science: Quick, quick, slow, *News and views*, Lincoln, T, **422**, 132

Meteorology: Oscillating eyes, *News and views*, Clarke, T, **425**, 253

tyrosine kinase, Cancer: Escape from inhibition, *News and views*, Courtneidge, S A, **422**, 827

Jelly belly protein activates the receptor tyrosine kinase Alk to specify visceral muscle pioneers, *Letter to Nature*, Lee, H-H, Norris, A, Weiss, J B, Frasch, M, **425**, 507

Jeb signals through the Alk receptor tyrosine kinase to drive visceral muscle fusion, *Letter to Nature*, Englund, C, Loren, C E, Grabbe, C, Varshney, G K, Deleuil, F, Hallberg, B, Palmer, R H, **425**, 512

ubiquitin, Insights into the ubiquitin transfer cascade from the structure of the activating enzyme for NEDD8, *Letter to Nature*, Walden, H, Podgorski, M S, Schulman, B A, **422**, 330

Cell biology: Tumour suppressors in the wrecking yard, *News and views*, Plicher, H R, **422**, 487

Sex and self-denial, *News and views*, Newbigin, E, Vierstra, R D, **423**, 229

CUL-4 ubiquitin ligase maintains genome stability by restraining DNA-replication licensing, *Letter to Nature*, Zhong, W, Feng, H, Santiago, F E, Kipreos, E T, **423**, 885

Signal transduction: Aspirin, ubiquitin and cancer, *News and views*, Wilkinson, K D, **424**, 738

Control of spontaneous and damage-induced mutagenesis by SUMO and ubiquitin conjugation, *Letter to Nature*, Stelter, P, Ulrich, H D, **425**, 188

Protein degradation and protection against misfolded or damaged proteins, *Insight review article*, Goldberg, A L, **426**, 895

ubiquitin ligase, The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase, *Letter to Nature*, Pintard, L, Willis, J H, Willems, A, Johnson, J-L F, Srayko, M, Kurz, T, Glaser, S, Mains, P E, Tyers, M, Bowerman, B, Peter, M, **425**, 311

BTB proteins are substrate-specific adaptors in an SCF-like modular ubiquitin ligase containing CUL-3, *Letter to Nature*, Xu, L, Wei, Y, Reboul, J, Vaglio, P, Shin, T-H, Vidal, M, Elledge, S J, Harper, J W, **425**, 316

ubiquitin-like proteins, Insights into the ubiquitin transfer cascade from the structure of the activating enzyme for NEDD8, *Letter to Nature*, Walden, H, Podgorski, M S, Schulman, B A, **422**, 330

ubiquitination, LAF1 ubiquitination by COP1 controls photomorphogenesis and is stimulated by SPA1, *Letter to Nature*, Seo, H S, Yang, J-Y, Ishikawa, M, Bolle, C, Ballesteros, M L, Chua, N-H, **423**, 995

UFOs, Fireball photo sparks explosion of debate, *News in brief*, **425**, 653

UK, Biosciences Federation, Merger provides stronger voice for British biologists, *News in brief*, **425**, 230

UK, Cancer Research UK, Molecular medic to lead cancer research giant, *News in brief*, **423**, 794

UK, Centre for Behavioural Neuroscience, UK primate centre gets the nod but faces cash shortfall, *News in brief*, **426**, 376

UK, Committee on Safety of Medicines, British panel bans use of antidepressant to treat children, *News*, Abbott, A, **423**, 792

UK, congestion charge, London gears up for road congestion charge, *News*, Adam, D, **421**, 679

UK, conservation, Field sports and conservation in the United Kingdom, *Letter to Nature*, Oldfield, T E E, Smith, R J, Harrop, S R, Leader-Williams, N, **423**, 531

UK, Copyright Licensing Agency, Commercial copying charges hit European academics, *News*, Giles, J, **426**, 217

UK, Dana Centre, Museum breaks mould in attempts to lure reluctant visitors, *News*, Giles, J, **426**, 6

UK, education, UK wants to swap facts for issues to teach bored teens, *News in brief*, **421**, 202

UK, Engineering and Physical Sciences Research Council, British chemists warned of impending stagnation, *News*, Adam, D, **421**, 100

UK, *GM Nation?* report, Flaws undermine results of UK biotech debate, *Correspondence*, Campbell, S, Townsend, E, **425**, 559

UK, Imperial College, Paper retracted as co-author admits forgery, *News*, Adam, D, **421**, 775

Maths institute planned to meet multiplying demand, *News*, Giles, J, **426**, 594

UK, Institute of Biology, Merger provides stronger voice for British biologists, *News in brief*, **425**, 230

UK, Life Science Committee, Merger provides stronger voice for British biologists, *News in brief*, **425**, 230

UK, Ministry of Defence, Nerve-gas experiments will not go to court, *News in brief*, **424**, 244

UK, National Clinical Trials Agency, UK considers plans to shake up clinical trials, *News*, Giles, J, **426**, 216

UK, National Institute for Medical Research, Communication breakdown, *Opinion*, **422**, 545

Protests win reprieve for renowned medical lab, *News*, Giles, J, **423**, 573

UK, National Physics Laboratory, Standards-lab staff up in arms over military link, *News*, Giles, J, **425**, 754

UK, Natural History Museum, Amateur anglers cast as nature monitors, *News in brief*, **424**, 362

UK, Oxford University, Traditional values for transatlantic venture, *News in brief*, **424**, 716

Oxford don suspended for political gate, *News in brief*, **426**, 8

UK, Particle Physics and Astronomy Research Council, Particle-physics funder backs linear collider, *News in brief*, **426**, 376

UK, Research Assessment Exercise, UK universities face star treatment in funding revamp, *News*, Giles, J, **423**, 574

UK, research funding, British science courses face high fees and low interest, *News in brief*, **421**, 466

MRC planning outweighs excellence in science, *Correspondence*, Staynov, D, **423**, 918

UK, Royal Society, Royal society to give prince nanotech news, *News in brief*, **423**, 8

Wave of controversies spurs probe into fair presentation of results, *News in brief*, **424**, 868

Local support required, *Opinion*, **426**, 213

UK, Science Museum, Museum breaks mould in attempts to lure reluctant visitors, *News*, Giles, J, **426**, 6
UK, Science and Technology Committee, Britain launches inquiry into the cost of science journals, *News in brief*, **426**, 747
UK, Soil Association, Consumers don't want GM, so why use it?, *Correspondence*, Melchett, P, **424**, 995
UK, Stop Huntingdon Animal Cruelty, UK shock tactics repel animal-rights activists in Japan, *News*, Cyranoski, D, **424**, 119
UK Strategy for Neutrons, Britain shuts door on extra neutron source, *News in brief*, **422**, 654
UK, transgenic crops, Debate, what debate?, *Opinion*, **423**, 669
  Public input sought on transgenic farming, *News*, Tilstone, C, **423**, 672
UK, universities, British science courses face high fees and low interest, *News in brief*, **421**, 466
UK, University of Cambridge, UK primate centre gets the nod but faces cash shortfall, *News in brief*, **426**, 376
Ultra Long Duration Balloon, Long-haul balloon makes more of a splash than planned, *News in brief*, **422**, 366
ultracold molecules, Condensed-matter physics: Really cool molecules, *News and views*, Julienne, P S, **424**, 24
  Creation of ultracold molecules from a Fermi gas of atoms, *Letter to Nature*, Regal, C A, Ticknor, C, Bohn, J L, Jin, D S, **424**, 47
  Emergence of a molecular Bose-Einstein condensate from a Fermi gas, *Letter to Nature*, Greiner, M, Regal, C A, Jin, D S, **426**, 537
ultrafast systems, Direct observation of attosecond light bunching, *Letter to Nature*, Tzallas, P, Charalambidis, D, Papadoglannis, N A, Witte, K, Tsakiris, G D, **426**, 267
ultramafic cumulates, Evolution of the Archaean crust by delamination and shallow subduction, *Letter to Nature*, Foley, S F, Buhre, S, Jacob, D E, **421**, 249
ultrathin films, Critical thickness for ferroelectricity in perovskite ultrathin films, *Letter to Nature*, Junquera, J, Ghosez, P, **422**, 506
  An inverse transition of magnetic domain patterns in ultrathin films, *Letter to Nature*, Portmann, O, Vaterlaus, A, Pescla, D, **422**, 701
ultraviolet light, Quasi-phase-matched generation of coherent extreme-ultraviolet light, *Letter to Nature*, Paul, A, Bartels, R A, Tobey, R, Green, H, Welman, S, Christov, I P, Murnane, M M, Kapteyn, H C, Backus, S, **421**, 51
  Atmospheric science: Ultraviolet light and leaf emission of NO$_x$, *Brief communication*, Hari, P, Raivonen, M, Vesala, T, Munger, J W, Pilegaard, K, Kulmala, M, **422**, 134
  Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Stark, J M, Hart, S C, **423**, 137
  Reply: Nitrogen storage: UV-B radiation and soil microbial communities, *Brief communication*, Johnson, D, Campbell, C D, Lee, J A, Callaghan, T V, Gwynn-Jones, D, **423**, 138
  Ultraviolet vision in a bat, *Letter to Nature*, Winter, Y, Lopez, J, von Helversen, O, **425**, 612
  Vision: An eye for colour, *News and views*, Pilcher, H R, **426**, 618
UmanGenomics, An ethical dilemma, *Commentary*, Rose, H, **425**, 123
uncertainty, Decisions, Uncertainty, and the Brain: The Science of Neuroeconomics, Glimcher, P W, *Book review by* Montague, P R, **424**, 371
uncertainty principle, Quantum physics: Uncertain future, *News and views*, Blencowe, M, **424**, 262
uncoupling protein-3, Uncoupling the agony from ecstasy, *Brief communication*, Mills, E M, Banks, M L, Sprague, J E, Finkel, T, **426**, 403
undergraduates, Tokyo deans plans flexible future for students, *News*, Kandachi, K, **421**, 304
United Nations, Knowledge and Diplomacy: Science Advice in the United Nations System, Committee for Survey and Analysis of Science Advice on Sustainable Development to International Organizations, Development, Security, and Cooperation, National Research Council, *Book review by* Masood, E, **422**, 471
  Protecting the Ozone Layer: The United Nations History, Anderson, S O, Sarma, K M, *Book review by* Herrick, C, **422**, 664
  New access for agriculture, *Opinion*, **425**, 749
  United Nations fails to reach agreement on human cloning, *News in brief*, **426**, 112
United Nations, Convention on Biological Diversity, Dynamic diversity, *Concepts*, Knapp, S, **422**, 475
United Nations Educational, Scientific and Cultural Organization (UNESCO), Iraqi science faces lonely road to recovery, *News*, Butler, D, **423**, 4
  Eyes in the sky to look out for heritage sites, *News in brief*, **424**, 9
United Nations Environment Programme, Mixed results for conservation efforts leave species dying, *News in brief*, **425**, 230
  United Nations set help China plan its environmental future, *News in brief*, **425**, 336
  Arctic clean-up project aims to confront Soviet pollution legacy, *News in brief*, **425**, 892
United Nations Framework Convention on Climate Change, Kyoto agreement, When the fighting is over..., *Opinion*, **422**, 359
  Researchers rattled as Kyoto Protocol hangs in the balance, *News*, Schiermeier, Q, **423**, 792
  Disillusionment and doubt undermine Kyoto's birthday bash, *News*, Schiermeier, Q, **426**, 742
  Climate change: The long road from Kyoto, *News feature*, Schiermeier, Q, **426**, 756
United Nations Monitoring, Verification and Inspection Commission, Inspectors face uphill struggle in search for banned weapons in Iraq, *News*, McDowell, N, **422**, 362
  Lack of trust hampers hunt for weapons, *News*, Butler, D, **423**, 371
Universe, The Restless Universe: Understanding X-ray Astronomy in the Age of *Chandra* and *Newton*, Schlegel, E M, *Book review by* Piro, L, **421**, 21
  Cassell's Laws of Nature: An A–Z of Laws and Principles Governing the Workings of Our Universe/The Nature of Science: An A–Z Guide to the Laws and Principles Governing Our Universe, Trefil, J, *Book review by* Gratzer, W, **421**, 578
  Cosmology gets real, *News feature*, Brumfiel, G, **422**, 108
  Magic Universe: The Oxford Guide to Modern Science, *Book review*, Calder, N, Wade, N, **425**, 241
  Cosmology: The shape of the Universe, *News and views*, Ellis, G F R, **425**, 566
  Dodecahedral space topology as an explanation for weak wide-angle temperature correlations in the cosmic microwave background, *Letter to Nature*, Luminet, J-P, Weeks, J R, Riazuelo, A, Lehoucq, R, Uzan, J-P, **425**, 593
  US launches joint effort to probe dark secrets of the Universe, *News*, Reichhardt, T, **425**, 887
  Astrophysics: Testing time for gravity, *News and views*, van den Heuvel, E P J, **426**, 504
Universe, evolution, Astronomy: Feeding the first quasars, *News and views*, Ferrarese, L, **421**, 329
  Spectral signature of cosmological infall of gas around the first quasars, *Letter to Nature*, Barkana, R, Loeb, A, **421**, 341
  Echo of the big bang, Lemonick, M, *Book review by* Carroll, S, **424**, 373
  Astrophysics: Lost lithium, *News and views*, Baker, J, **425**, 472
  The Big Splat: or How Our Moon Came to Be, Mackenzie, D, *Book review by* Burns, J A, **425**, 664
  The formation of the first low-mass stars from gas with low carbon and oxygen abundances, *Letter to Nature*, Bromm, V, Loeb, A, **425**, 812
Universe, expansion, Cosmology: Beyond the inflationary border, *News and views*, Gratton, S, Steinhardt, P, **423**, 817
Universe, origin of, Axeing of website article sparks row at Max Planck, *News*, Abbott, A, **422**, 460
  Alpha and Omega: The Search for the Beginning and the End of the Universe, Seife, C, *Book review by* Coles, P, **425**, 127
universities, Paris university blasted over Israel motion, *News*, Butler, D, **421**, 200
  Taiwanese institute causes upset by degrees, *News*, Cyranoski, D, **421**, 464
  Universities could gain from backing biotech, *Correspondence*, Kamb, A, **422**, 113
  Australian reform will see universities put squeeze on students, *News in brief*, **423**, 374
  Pros and cons of centralization, *Opinion*, **423**, 787
  German reform plan arouses fear for autonomy, *News*, Schiermeier, Q, **423**, 790
  Universities in the Marketplace: The Commercialization of Higher Education, Bok, D, *Book review by* Gunawardena, J, **424**, 489
universities, funding, Bleak outlook for universities as state budget deficits bite, *News*, Dalton, R, **421**, 5
  University of California faces wave of budget cuts, *News in brief*, **421**, 202
  Ex-professor's gift boosts Californian University's funds, *News in brief*, **422**, 366
  Pursuing diversified universities, *Opinion*, **423**, 465
  UK universities face star treatment in funding revamp, *News*, Giles, J, **423**, 574
  Local support required, *Opinion*, **426**, 213
  Middle East: university funding for Palestinians, *Correspondence*, Agmon, N, **426**, 227
universities, protest, Standing room only as German protest lectures go on and on, *News in brief*, **426**, 596
universities, staff, Arizona State University plans clear-out of faculty, *News in brief*, **424**, 716
uranium, Neutron source powers ahead with weapons-grade uranium, *News*, Schiermeier, Q, **423**, 5
  Iraqi looters spark alert over radiation risks, *News*, Brumfiel, G, **423**, 370
  Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic, *Letter to Nature*, Barkai, R, Gopher, A, Lauritzen, S E, Frumkin, A, **423**, 977
  Britain set to pull the plug on nuclear-fuel reprocessing, *News*, Schiermeier, Q, **425**, 7
  Europe urged to counter nuclear proliferation threat, *News*, Brumfiel, G, **426**, 219
urban ecosystems, Urbanization effects on tree growth in the vicinity of New York City, *Letter to Nature*, Gregg, J W, Jones, C G, Dawson, T E, **424**, 183
urbanization, Impact of urbanization and land use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **423**, 528
  Cities' response to attack hampered by unknown airflow, *News in brief*, **423**, 676
  Urbanization effects on tree growth in the vicinity of New York City, *Letter to Nature*, Gregg, J W, Jones, C G, Dawson, T E, **424**, 183
  Birds sing at a higher pitch in urban noise, *Brief communication*, Slabbekoorn, H, Peet, M, **424**, 267
  Corrigendum: Impact of urbanization and land-use change on climate, *Letter to Nature*, Kalnay, E, Cai, M, **425**, 102
uric acid, Immunology: Dangerous liaisons, *News and views*, Heath, W R, Carbone, F R, **425**, 460
  Molecular identification of a danger signal that alerts the immune system to dying cells, *Letter to Nature*, Shi, Y, Evans, J E, Rock, K L, **425**, 516
US, Advanced Technology Program, Ebbs and flows at standard lab, *News*, Brumfiel, G, Hoag, H, **421**, 565
US, Allen Institute for Brain Science, Software mogul turns to mouse for genetic atlas of the brain, *News*, Dalton, R, **425**, 226
US, American Association for the Advancement of Science, Ecstasy's after-effects, *Opinion*, **425**, 223
US, American Chemical Society, Chemists enthusiastic to embrace change, *Correspondence*, Busch, D, Pearce, E, **425**, 899
US, American Investments for Reduction of Emissions Act, Climate come-uppance delayed, *Editorial*, **421**, 195
US, American Legacy Foundation, Academics fume as university refuses to reject tobacco dollars, *News*, Dalton, R, **422**, 361
US, anthropology, Tracking the first Americans, *News and views*, Dillehay, T D, **425**, 23
US, Anti-Doping Agency, Drugs bust reveals athletes' secret steroid, *News*, Knight, J, **425**, 752
US, archaeology, Dangers of privatization, *Opinion*, **424**, 473
  US researchers fear job losses from privatization drive, *News*, Dalton, R, **424**, 478
US, Arizona State University, Arizona institute names leader, *News*, Dalton, R, **423**, 6
US, Armed Forces Institute of Pathology, Anger mounts over cutbacks at US army pathology lab, *News*, Check, E, **424**, 4
US, army, US army survey targets Gulf War syndrome, *News*, Knight, J, **421**, 463
  US Army plans assault on biotech frontline, *News in brief*, **422**, 106
US, assisted reproduction, US federal funding ban puts babies at risk, *Correspondence*, Carson, S, Brzyski, R, **423**, 381
US, Association of American Universities, Visa rules leave US colleges facing semester of discontent, *News*, Brumfiel, G, **423**, 906
US, biotechnology, Biotech project in turmoil as Michigan balances books, *News*, Knight, J, **422**, 102
US, bioterrorism, US officials urge biologists to vet publications for bioterror risk, *News*, Check, E, **421**, 197
US, Brookhaven National Laboratory, Physicist discouraged by heightened security, *News*, Brumfiel, G, **422**, 458
US, Center for Biological Diversity, Biologists seek havens for species at risk, *News*, Dalton, R, **425**, 754
US, Centers for Disease Control and Prevention, Mystery virus slow to yield its identity as patient numbers rise, *News*, Pearson, H, **422**, 364
  US acts to keep SARS sequence public, *News in brief*, **423**, 214
  Improved SARS test cuts final case count in United States, *News in brief*, **424**, 362
US, Clay Mathematics Institute, Resignations rock mathematics institute, *News*, Brumfiel, G, **421**, 303
  Mathematics institute appoints new number one, *News in brief*, **423**, 108
  Mathematics: Conjuring with conjectures, *News and views*, Stewart, I, **423**, 124
US, climate change, Strategy for climate research gets cool response, *News*, Brumfiel, G, **424**, 475
US, cloning, Human cloning claim sparks fear of Senate backlash, *News*, Macilwain, C, **421**, 3
US, Columbia University, Cash could dry up desert ecological experiment, *News in brief*, **421**, 466
US, Combined Array for Research in Millimeter-wave Astronomy, High-altitude observatory meets mounting opposition, *News in brief*, **421**, 103
US, Cornell University, Shake up for management at Arecibo radio telescope, *News in brief*, **421**, 6
  Cornell axes Elsevier journals as prices rise, *News*, Knight, J, **426**, 217
US, defence, Experts find fault with US plan to intercept missiles at source, *News*, Brumfiel, G, **424**, 240
US, Defense Advanced Research Projects Agency (DARPA), Europe seeks single defence research agency, *News*, Schiermeier, Q, **421**, 465
  Remote control, *News feature*, Hoag, H, **423**, 796
  Military: brain machine could benefit millions, *Correspondence*, Rudolph, A, **424**, 369
  Military-funded research is not unethical, *Correspondence*, Rizzuto, D S, Breznen, B, Greger, B, **424**, 369
  In defence of DARPA, *Opinion*, **424**, 599
  Terrorist betting leaves defence agency fighting for autonomy, *News*, Brumfiel, G, **424**, 601
  Academics sidelined in battle against computer worms, *News*, Butler, D, **425**, 228
  Money runs out for project to spy on bank transactions, *News in brief*, **425**, 442
US, Department of Agriculture, Food safety comes to the fore, *News*, Brumfiel, G, Hoag, H, **421**, 565
US, Department of Defense, Falls for basic defence research, *News*, Brumfiel, G, Hoag, H, **421**, 565
  Science feels the pinch as Bush budget targets defence, *News*, Brumfiel, G, Hoag, H, **421**, 565
  Anger mounts over cutbacks at US army pathology lab, *News*, Check, E, **424**, 4
US, Department of Energy, Lie probes to continue at US weapons labs, *News*, Brumfiel, G, **422**, 793
  The grand challenges facing physics, *Opinion*, **424**, 355
  Physics poised for sizeable gains in energy department's wish-list, *News*, Brumfiel, G, **424**, 357
  US budgets for physical endeavour, *News*, Brumfiel, G, **424**, 361
  US bombshell hits revamp of Russian weapons centres, *News*, Brumfiel, G, **424**, 479
  US cuts use of lie detectors on job-hunting researchers, *News in brief*, **425**, 115
  US reveals physics wish-list in bid for scientific frontier, *News* Brumfiel, G, **426**, 108

US, Department of Health and Human Services, All the President's yes-men?, *Editorial*, **421**, 459

US, Department of Homeland Security, Homeland science chief wants quick fixes, *News*, Check, E, **423**, 106

Research mired in Homeland Security delays, *News*, Check, E, **424**, 986

Science and the war on terror, *Opinion*, **425**, 107

How scientists can help to protect US homeland, *Correspondence*, McQueary, C E, **425**, 451

Foreign students to foot the bill for US security scheme, *News in brief*, **425**, 892

US names first homeland security centre of excellence, *News in brief*, **426**, 489

US, Department of State, State department woos weapons researchers in bid to rebuild Iraq, *News*, Brumfiel, G, **426**, 371

US, disease in, The Deadly Truth: A History of Disease in America, Grob, G, *Book review by* Bynum, W F, **423**, 19

US, Duke University, Laser quest foiled as officials sent packing, *News in brief*, **422**, 106

US, Duke University Primate Center, Threat of closure hangs heavy over primate centre, *News*, Dalton, R, **423**, 471

US, Eleanor Roosevelt Institute, Cash crisis forces US genetics lab to close, *News in brief*, **422**, 462

Charities chip in to save chromosome institute, *News in brief*, **423**, 677

US, Endangered Species Act, Ecologists attack endangered-species logjam, *News*, Mason, B, **426**, 592

US, energy policy, Yes, we have no energy policy, *Editorial*, **422**, 1

US, environmental issues, No way to run a superpower, *Opinion*, **424**, 861

US, Environmental Protection Agency, Pesticide firms ask to use human data to assess safety, *News*, Reichhardt, T, **421**, 200

Agency 'ignoring its advisors' over Bt maize, *News*, Knight, J, **422**, 5

US reflects on flying eye for transgenic crops, *News*, Knight, J, **425**, 112

Emissions row gives EPA head tough start, *News in brief*, **426**, 112

US, Fermi National Accelerator Laboratory, Below-par performance hampers Fermibal quest for Higgs boson, *News*, Brumfiel, G, **424**, 3

US, Food and Drug Administration, Transgenic salmon still out in the cold in United States, *News*, Hoag, H, **421**, 304

Food safety comes to the fore, *News*, Brumfiel, G, Hoag, H, **421**, 565

Drugs are for beauty too, *Opinion*, **424**, 981

GloFish casts light on murky policing of transgenic animals, *News*, Knight, J, **426**, 372

US Geological Survey, Photos stop as Landsat 7 defies engineers, *News*, Reichhardt, T, **423**, 907

US, Harvard University, Harvard team suggests route to better bioterror alerts, *News*, Knight, J, **421**, 564

Harvard heralds fresh take on systems biology, *News*, Check, E, **425**, 439

Cancer grant chief denies Harvard bias, *News in brief*, **426**, 221

US, Homeland Security Center for Risk and Economic Analysis of Terrorism Events, US names first homeland security centre of excellence, *News in brief*, **426**, 489

US, House of Representatives, Moderate flies flag for science on Capitol Hill, *News*, Brumfiel, G, **422**, 365

US, Howard Hughes Medical Institute, Howard Hughes steams ahead with new campus, *News in brief*, **423**, 108

US, immigration, Congressmen unmoved by foreigners' plight, *News*, Brumfiel, G, **422**, 457

Researchers rage at tightened restrictions on US immigration, *News*, Brumfiel, G, **422**, 457

Lack of trained security staff delays US visas, *Correspondence*, McSweegan, E, **423**, 115

Visa rules leave US colleges facing semester of discontent, *News*, Brumfiel, G, **423**, 906

Academic hopefuls set for pole position in US visa applications, *News in brief*, **424**, 120

US visa problems curb rise in foreign students, *News in brief*, **424**, 362

US, Information Awareness Office, Money runs out for project to spy on bank transactions, *News in brief*, **425**, 442

US, Iowa Herbarium, Safe home planned for Iowa herbarium, *Correspondence*, Lilien, J, **425**, 121

US, Jet Propulsion Laboratory, The comeback kids, *News feature*, Reichhardt, T, **423**, 477

US, Johns Hopkins University, Task force set up to combat threat of political interference, *News*, Check, E, **426**, 218

US, Joint Institute for Laboratory Astrophysics, Rocky Mountain high, *News feature*, Aldhous, P, **423**, 915

US, Lawrence Berkeley National Laboratory, US lab managers face up to congressional scrutiny, *News in brief*, **421**, 307

Incredible! Hulk lab is nothing like reality, *News in brief*, **423**, 794

US, Lawrence Livermore National Laboratory, US lab managers face up to congressional scrutiny, *News in brief*, **421**, 307

Anything you can do, *Opinion*, **422**, 647

Livermore official linked with alleged spy, *News*, Brumfiel, G, **422**, 651

California laboratory mourns loss of H-bomb pioneer, *News*, Knight, J, **425**, 226

Plans to rename Livermore laboratory fall out of favour, *News in brief*, **426**, 113

US, Los Alamos National Laboratory, Los Alamos directors resign after row over sacked whistleblowers, *News*, Brumfiel, G, **421**, 99

US lab managers face up to congressional scrutiny, *News in brief*, **421**, 307

Los Alamos contract open to bids, *News*, Brumfiel, G, **423**, 104

Sacked Los Alamos man wins cash payout, *News in brief*, **424**, 988

US, Massachusetts Institute of Technology, MIT pulls out of Asian Media Lab in argument over rule, *News*, Jayaraman, K S, **423**, 213

US, military, US army attacked over published patent for 'bioweapons grenade', *News*, Check, E, **423**, 789

United States and India forge military research deal, *News in brief*, **426**, 488

US, Museum of Northern Arizona, Museum trustees quit after row over sale of artefacts, *News*, Dalton, R, **424**, 360

US, NASA Space Radiation Laboratory, Radiation lab brings space studies on-beam, *News in brief*, **425**, 756

US, National Academies, National Academics launch grants for interdisciplinary work, *News*, Check, E, **422**, 791

US, National Academy of Sciences, Report raises hopes for grand network of US ecology centres, *News*, Dalton, R, **425**, 332

US, National Biocontainment Laboratories, Top lab contracts awarded as US battles deadly bugs, *News in brief*, **425**, 552

US, National Center for Research Resources, Repository to nurture standard stem cells, *News in brief*, **424**, 9

US, National Ecological Observatory Network, Report raises hopes for grand network of US ecology centres, *News*, Dalton, R, **425**, 332

US, National Human Genome Research Institute, Draft guidelines ease restrictions on use of genome sequence data, *News*, Dennis, C, **421**, 877

US, National Institute of Allergy and Infectious Diseases, AIDS research cut to pay for anthrax vaccine, *News*, Check; E, **424**, 241

US selects regional biodefence hubs, *News*, Dalton, R, **425**, 110

US, National Institute of Drug Abuse, Ecstasy's after-effects, *Opinion*, **425**, 223

Scientists go to jail to crack substance abuse, *News*, Singer, E, **426**, 486

US, National Institute of General Medical Sciences, Biophysicist named to run basic-research arm of NIH, *News*, Check, E, **424**, 984

US, National Institutes of Health, Biologists wary that cash up front could mean cuts later, *News*, Check, E, **421**, 677

Cancer fears casts doubts on future of gene therapy, *News*, Check, E, **421**, 678

NIH aims to characterize embryonic stem-cell lines, *News in brief*, **421**, 682

Fresh funding hike mooted for US biomedical research, *News in brief*, **422**, 462

Biologists disappointed as NIH budget falls flat, *News*, Check, E, **423**, 905

Expert panel retreats from major restructuring in blueprint for NIH, *News*, Check, E, **424**, 475

If it ain't broke, don't fix it (much), *Opinion*, **424**, 709

Postdocs show independent spirit, *News*, Check, E, **424**, 986

US selects regional biodefence hubs, *News*, Dalton, R, **425**, 110

NIH 'roadmap' charts course to tackle big research issues, *News*, Check, E, **425**, 438

NIH at the crossroads, *Opinion*, **425**, 545

NIH grant leads energy lab into protein project, *News in brief*, **425**, 652

Democrats condemn government 'meddling' with NIH, *News*, Check, E, **425**, 888

Task force set up to combat threat of political interference, *News*, Check, E, **426**, 218

US draws up plans to tackle autism, *News*, Singer, E, **426**, 373

Secrecy damages the NIH, *Opinion*, **426**, 739

Accusations of bias prompt NIH review of ethical guidelines, *News*, Knight, J, **426**, 741

US, National Laboratories, The National Labs: Science in an American System 1947–1974, Westwick, P J, *Book review by* York, H, **425**, 240

US, National Nanotechnology Coordination Office, Congress endorses big spending on small science, *News in brief*, **426**, 376

US, National Oceanic and Atmospheric Administration, Bleak forecast for space weather, *News*, Reichhardt, T, **425**, 649

National Academy calls for sea change in ocean efforts, *News*, Mason, B, **426**, 6

US, National Science Foundation, NSF urged to take multidisciplinary tack on environment, *News*, Reichhardt, T, **421**, 102

Genomes take pole position in the icy wastes, *News*, Hoag, H, **421**, 880

Partners dig deep for ocean-drilling project, *News*, Brumfiel, G, **422**, 651

Airborne lab crews hope study will go down a storm, *News in brief*, **423**, 214

Homestake strikes gold in underground review, *News in brief*, **423**, 578

Pumping row erodes hopes for underground lab, *News*, Brumfiel, G, **423**, 674

String theorists bypass NSF en route to Iran seminar, *News*, Brumfiel, G, **424**, 3

US budgets for physical endeavour, *News*, Brumfiel, G, **424**, 361

Cash boost gets Earth project off the ground, *News in brief*, **425**, 757

National Science Foundation facing budget let-down, *News*, Brumfiel, G, **426**, 593

US Navy, Court ruling sounds note of caution for sonar system, *News*, Dalton, R, **425**, 6

US, nuclear reactors, Congress split over funding for 'safe' nuclear reactor, *News*, Brumfiel, G, **425**, 650

US, nuclear weapons, Bush seeks to beef up US nuclear-weapons arsenal, *News*, Brumfiel, G, **422**, 101

US, politics, Bush accused of power abuse over science, *News*, Check, E, **424**, 715

Democrats condemn government 'meddling' with NIH, *News*, Check, E, **425**, 888

US, Presidential Awards for Excellence in Mathematics, Science and Engineering Mentoring, In praise of good mentors, *Opinion*, **422**, 359

US, privatization, Bush challenged over privatization plans, *News in brief*, **425**, 230

US, Public Library of Science, Free-access group secures deal to publish journals, *News in brief*, **421**, 6

US, research funding, Bleak outlook for universities as state budget deficits bite, *News*, Dalton, R, **421**, 5

US societies unite in plea for boost to research budgets, *News*, Brumfiel, G, **421**, 100

Biologists wary that cash up front could mean cuts later, *News*, Check, E, **421**, 677

Researchers fear the future as Congress settles 2003 budget, *News*, Hoag, H, **421**, 774

Cash crisis forces US genetics lab to close, *News in brief*, **422**, 462

Fresh funding hike mooted for US biomedical research, *News in brief*, **422**, 462

Biodefence takes its toll, *Opinion*, **423**, 571

Biologists disappointed as NIH budget falls flat, *News*, Check, E, **423**, 905

String theorists bypass NSF en route to Iran seminar, *News*, Brumfiel, G, **424**, 3

Physics poised for sizeable gains in energy department's wish-list, *News*, Brumfiel, G, **424**, 357

US budgets for physical endeavour, *News*, Brumfiel, G, **424**, 361

Terrorist betting leaves defence agency fighting for autonomy, *News*, Brumfiel, G, **424**, 601

Research mired in Homeland Security delays, *News*, Check, E, **424**, 986

NIH at the crossroads, *Opinion*, **425**, 545

South Florida rocked as dean quits over political funding, *News*, Dalton, R, **425**, 889

California fires close labs as grant hopefuls get fingers burned, *News in brief*, **426**, 8

US reveals physics wish-list in bid for scientific frontier, *News*, Brumfiel, G, **426**, 108

National Science Foundation facing budget let-down, *News*, Brumfiel, G, **426**, 593

US, Rockefeller University, UK cell biologist takes pole position at Rockefeller, *News*, Check, E, **421**, 461

US, Salk Institute for Biological Sciences, California fires close labs as grant hopefuls get fingers burned, *News in brief*, **426**, 8

US, Sandia National Laboratory, High-voltage shock sparks fusion from X-ray crush, *News*, Brumfiel, G, **422**, 549

Sandia builds big lab for small-scale research, *News in brief*, **424**, 869

US, Santa Fe Institute, Physicist takes the reins at Santa Fe complexity centre, *News*, Brumfiel, G, **423**, 105

US, Scripps Research Institute, Traditional values for transatlantic venture, *News in brief*, **424**, 716

Scripps gets invitation to the sunshine state, *News in brief*, **425**, 653

Florida welcomes Scripps as critics predict big-money flop, *News*, Dalton, R, **426**, 4

California fires close labs as grant hopefuls get fingers burned, *News in brief*, **426**, 8

US, Selly Oaks Field Station, Ecologists count cost as wildfire ravages research station, *News in brief*, **424**, 480

US, Senate, Esoteric theorist lands starring role in Senate hearing, *News*, Brumfiel, G, **425**, 113

US, Smithsonian Institution, Report backs Smithsonian research, *News*, Check, E, **421**, 198

US, Stanford Linear Accelerator Centre, Quark 'compound' has them all guessing, *News in brief*, **423**, 108

US, Stanford University, Fuel for thought, *Commentary*, Ritson, D, **421**, 575

No strings attached to $225m sponsorship, *Correspondence*, Kruger, C, Orr Jr, F M, **422**, 15

US, State Department, Adviser gears up to bring scientists to matters of state, *News*, Brumfiel, G, **425**, 439

US, stem-cell research, California rejects party line on stem-cell work, *News in brief*, **425**, 442

US, Thomas Jefferson National Accelerator Facility, Researchers feel the power as electron laser lights up, *News in brief*, **423**, 911

US, transgenic animals, Transgenic salmon still out in the cold in United States, *News*, Hoag, H, **421**, 304

US, transgenic crops, US reflects on flying eye for transgenic crops, *News*, Knight, J, **425**, 112

US beefs up policing of transgenic crop trials, *News in brief*, **425**, 892

US, universities, Bleak outlook for universities as state budget deficits bite, *News*, Dalton, R, **421**, 5

Visa rules leave US colleges facing semester of discontent, *News*, Brumfiel, G, **423**, 906

Arizona State University plans clear-out of faculty, *News in brief*, **424**, 716

Spare me the lecture, *News feature*, Powell, K, **425**, 234

US loses allure in foreign students' eyes, *News*, Brumfiel, G, **426**, 5

US, University of California, University of California faces wave of budget cuts, *News in brief*, **421**, 202

Lab investigators make return after sacking, *News in brief*, **421**, 466

Academics fume as university refuses to reject tobacco dollars, *News*, Dalton, R, **422**, 361

US, University of California Berkeley, Syngenta ends plant-research deal with Berkeley, *News*, Dalton, R, **426**, 216
Berkeley accused of biotech bias as ecologist is denied tenure, *News*, Dalton, R, **426**, 591

US, University of California Davis, Ousted university vet sues over dismissal, *News in brief*, **423**, 214

US, University of California Los Angeles, AIDS scientist rapped over controversial treatment test, *News in brief*, **422**, 794

US, University of California San Diego, Ex-professor's gift boosts Californian University's funds, *News in brief*, **422**, 366

US, University of California Santa Cruz, NASA boldly goes into the world of academia, *News in brief*, **425**, 337

US, University of Michigan, Michigan unveils major life-sciences institute, *News in brief*, **425**, 9

US, University of New Mexico, University buildings named on shaky ground, *News*, Dalton, R, **426**, 374

US, University of South Florida, South Florida rocked as dean quits over political funding, *News*, Dalton, R, **425**, 889

US, Woods Hole Oceanographic Institution, Noise protests drown out whale sonar tests, *News in brief*, **421**, 202
Robots in the deep, *News feature*, Clarke, T, **421**, 468

V Hydrae, A collimated, high-speed outflow from the dying star V Hydrae, *Letter to Nature*, Sahai, R, Morris, M, Knapp, G R, Young, K, Barnbaum, C, **426**, 261

V838 Monocerotis, An energetic stellar outburst accompanied by circumstellar light echoes, *Letter to Nature*, Bond, H E, Henden, A, Levay, Z G, Panagia, N, Sparks, W B, Starrfield, S, Wagner, R M, Corradi, R L M, Munari, U, **422**, 405

vaccines, Malaria — there could be a third way, *Correspondence*, Miles, M A, **421**, 13
Continuing emissions of methyl chloroform from Europe, *Article*, Krol, M C, Lelieveld, J, Oram, D E, Sturrock, G A, Penkett, S A, Brenninkmeijer, C A M, Gros, V, Williams, J, Scheeren, H A, **421**, 131
Indian cricketers team up to hit polio for six, *News in brief*, **421**, 682
Mixed results win HIV vaccine a guarded response, *News*, Hoag, H, **421**, 877
High-tech tomatoes get luxury residence, *News in brief*, **421**, 882
Vaccine sought as bird flu infects humans, *News*, Cyranoski, D, **422**, 6
Victims of smallpox vaccine 'should be compensated', *News in brief*, **422**, 106
Battle of the mind, *News feature*, Check, E, **422**, 370
Heart-attack deaths raise fears over smallpox jabs, *News in brief*, **422**, 462
Trial suggests vaccines could aid HIV therapy, *News*, Check, E, **422**, 650
Biotech firms pin hopes on defence, *News*, Pearson, H, **422**, 790
AIDS researchers seek criteria for vaccines, *News*, Check, E, **423**, 107
Flame rekindled for Alzheimer's vaccine, *News in brief*, **423**, 472
Biodefence takes its toll, *Opinion*, **423**, 571
Sweet revenge, *News feature*, Dennis, C, **423**, 580
Back to 'plan A', *News feature*, Check, E, **423**, 912
What about a vaccine?, *News feature*, Clarke, T, **424**, 126
AIDS research cut to pay for anthrax vaccine, *News*, Check, E, **424**, 241
Fast vaccine offers hope in battle with Ebola, *News*, Clarke, T, Knight, J, **424**, 602
Accelerated vaccination for Ebola virus haemorrhagic fever in non-human primates, *Letter to Nature*, Sullivan, N J, Geisbert, T W, Geisbert, J B, Xu, L, Yang, Z-Y, Roederer, M, Koup, R A, Jahrling, P B, Nabel, G J, **424**, 681
Retraction ends furore over cancer vaccine, *News*, Abbott, A, **425**, 4
Vaccine claim lifts company's stock but angers researchers, *News*, Check, E, **425**, 332
Mosquito production mooted as fast track to malaria vaccine, *News*, Butler, D, **425**, 437
'Money down the drain' fears for AIDS vaccine trials, *News in brief*, **426**, 221
Immunology: Long gone, but not forgotten, *News and views*, Heemels, M-T, **426**, 402
Shortcomings halt study of Swiss cancer vaccine, *News*, Schiermeier, Q, **426**, 484
'Reverse genetics' could offer forward-thinking flu vaccine, *News*, Pearson, H, **426**, 742

vacuole membrane proteins, Regulated degradation of a class V myosin receptor directs movement of the yeast vacuole, *Letter to Nature*, Tang, F, Kauffman, E J, Novak, J L, Nau, J J, Catlett, N L, Weisman, L S, **422**, 87

van Gogh, Vincent, Vincent's golden image of a July night, *News in brief*, **423**, 794

Vangl2, Identification of *Vangl2* and *Scrb1* as planar polarity genes in mammals, *Letter to Nature*, Montcouquiol, M, Rachel, R A, Lanford, P J, Copeland, N G, Jenkins, N A, Kelley, M W, **423**, 173

vardenafil, Structure of the catalytic domain of human phosphodiesterase 5 with bound drug molecules, *Letter to Nature*, Sung, B-J, Hwang, K Y, Jeon, Y H, Lee, J I, Heo, Y-S, Kim, J H, Moon, J, Yoon, J M, Hyun, Y-L, Kim, E, Eum, S J, Park, S-Y, Lee, J-O, Lee, T G, Ro, S, Cho, J M, **425**, 98

variola virus, Biodefence plans earn lukewarm response from US academics, *News*, Check, E, **422**, 245

varying speed of light, Faster Than The Speed of Light: The Story of a Scientific Speculation, Magueijo, J, *Book review by* Ellis, G, **422**, 563

vascular endothelial growth factor, Immunology: Oxygen and the inflammatory cell, *News and views*, Nathan, C, **422**, 675

VaxGen, Mixed results win HIV vaccine a guarded response, *News*, Hoag, H, **421**, 877
Back to 'plan A', *News feature*, Check, E, **423**, 912
'Money down the drain' fears for AIDS vaccine trials, *News in brief*, **426**, 221

vegetarianism, Eat your veg, *News feature*, Powell, K, **426**, 378

Venezuela, Venezuelan researchers call for international help, *Correspondence*, Mendoza, C, Urbina, J A, **421**, 473
Rare book collection faces final chapter, *News in brief*, **421**, 682
Venezuelan government is backing science, *Correspondence*, Cabrera, J L, Guerrero, L E, Donoso, A, **421**, 786
Venezuela: crisis puts major institutions at risk, *Correspondence*, Requena, J, **422**, 257
Venezuela: the other side of the story, *Correspondence*, Sucre, M G, Marcano, L, Padrón, R, Acosta, J, Burguillos, L, **422**, 257

Venice, Save our city!, *News feature*, Nosengo, N, **424**, 608
Effective protection may alter the look of Venice, *Correspondence*, Stanley, J-D, **425**, 661

Venter, Craig, Venter's dog genome sets tongues wagging, *News in brief*, **425**, 442

VERITAS observatory, Stargazers win heated battle over Native American site, *News in brief*, **421**, 466

vertebrates, Head and backbone of the Early Cambrian vertebrate *Haikouichthys*, *Letter to Nature*, Shu, D-G, Conway Morris, S, Han, J, Zhang, Z-F, Yasui, K, Janvier, P, Chen, L, Zhang, X-L, Liu, J-N, Li, Y, Liu, H-Q, **421**, 526
An exceptionally preserved Lower Cretaceous ecosystem, *Review article*, Zhou, Z, Barrett, P M, Hilton, J, **421**, 807

Very Energetic Radiation Imaging Telescope Array System (VERITAS), Telescope loses space to Native American site, *News in brief*, **423**, 8

Vesalius, Andreas, Vesalius's vessels, *Book review*, Purton, M, **424**, 373

vesicles, Functional and spatial segregation of secretory vesicle pools according to vesicle age, *Letter to Nature*, Duncan, R R, Greaves, J, Wiegand, U K, Matskevich, I, Bodammer, G, Apps, D K, Shipston, M J, Chow, R H, **422**, 176
Imaging coexisting fluid domains I biomembrane models coupling curvature and line tension, *Letter to Nature*, Baumgart, T, Hess, S T, Webb, W W, **425**, 821
Self-assembly in aqueous solution of wheel-shaped Mo$_{154}$ oxide clusters into vesicles, *Letter to Nature*, Liu, T, Diemann, E, Li, H, Dress, A W M, Müller, A, **426**, 59

vesicular stomatitis virus, Medicine: Cancer-killing virus on a drip, *News and views*, Heemels, M-T, **426**, 28

***VHL* tumour suppressor gene**, Chemokine receptor CXCR4 downregulated by von Hippel-Lindau tumour suppressor pVHL, *Letter to Nature*, Staller, P, Sulitkova, J, Lisztwan, J, Moch, H, Oakeley, E J, Krek, W, **425**, 307

vibration, Direct observation of a local thermal vibration anomaly in a quasicrystal, *Letter to Nature*, Abe, E, Pennycook, S J, Tsai, A P, **421**, 347

video games, Action video game modifies visual selective attention, *Letter to Nature*, Green, C S, Bavelier, D, **423**, 534
Game on for PlayStations as consoles take quantum leap, *News in brief*, **423**, 578
A calm view of video violence, *Opinion*, **424**, 355
Playing with fire?, *News feature*, Reichhardt, T, **424**, 367

Vietnam War, Flight records reveal full extent of Agent Orange contamination, *News*, Butler, D, **422**, 649
The extent and patterns of usage of Agent Orange and other herbicides in Vietnam, *Article*, Stellman, J M, Stellman, S D, Christian, R, Weber, T, Tomasallo, C, **422**, 681
Agent Orange health investigation stuck at square one, *News*, Butler, D, **422**, 793

vinyl chloride, Detoxification on vinyl chloride to ethene coupled to growth of an anaerobic bacterium, *Letter to Nature*, He, J, Ritalahti, K M, Yang, K-L, Koenigsberg, S S, Löffler, F E, **424**, 62

violence, Violence viewed by psychopathic murderers, *Brief communication*, Gray, N S, MacCulloch, M J, Smith, J, Morris, M, Snowden, R J, **423**, 497
A calm view of video violence, *Opinion*, **424**, 355
Playing with fire?, *News feature*, Reichhardt, T, **424**, 367

viral genetics, Viral genetics: Deadly partnerships, *News and views*, Frank, S A, **425**, 251

viral protein R gene, HIV: Lucky mutation, *News and views*, Pilcher, H R, **423**, 598

viral replication, Good to CU, *News and views*, Gu, Y, Sundquist, W I, **424**, 21

viral vectors, Harmful potential of viral vectors fuels doubts over gene therapy, *News*, Check, E, **423**, 573

virion infectivity factor, Broad antiretroviral defence by human APOBEC3G through lethal editing of nascent reverse transcripts, *Letter to Nature*, Mangeat, B, Turelli, P, Caron, G, Friedli, M, Perrin, L, Trono, D, **424**, 99

virology, Virology: Pigs duck out of the influenza mix, *News and views*, Clarke, T, **423**, 702
Virology: Fresh assault on hepatitis C, *News and views*, Rice, C M, **426**, 129
Virology: Suppressing a terminator, *News and views*, Eggleston, A K, **426**, 136
An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus, *Letter to Nature*, Lamarre, D, Anderson, P C, Bailey, M, Beaulieu, P, Boiger, G, Bonneau, P, Bos, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, LaPlante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weldon, S M, Yong, C-L, Llinas-Brunet, M, **426**, 186
An NS3 protease inhibitor with antiviral effects in humans infected with hepatitis C virus, *Letter to Nature*, Lamarre, D, Anderson, P C, Bailey, M, Beaulieu, P, Boiger, G, Bonneau, P, Bös, M, Cameron, D R, Cartier, M, Cordingley, M G, Faucher, A-M, Goudreau, N, Kawal, S H, Kukolj, G, Lagace, L, Laplante, S R, Narjes, H, Poupart, M-A, Rancourt, J, Sentjens, R E, St George, R, Simoneau, B, Steinmann, G, Thibeault, D, Tsantrizos, Y S, Weldon, S M, Yong, C-L, Llinas-Brunet, M, **426**, 314
Virology: Smallpox selective potential, *News and views*, Clarke, T, **426**, 618

viron infectivity factor, The cytidine deaminase CEM15 induces hypermutation in newly synthesized HIV-1 DNA, *Letter to Nature*, Zhang, H, Yang, B, Pomerantz, R J, Zhang, C, Arunachalam, S C, Gao, L, **424**, 94

virtual conferencing, Virtual solution to carbon cost of conferences, *Correspondence*, Reay, D S, **424**, 251

viruses, as bird flu sparks alarm in Hong Kong, *News in brief*, **421**, 882
Congolese health officials confirm Ebola outbreak, *News in brief*, **421**, 882
Vaccine sought as bird flu infects humans, *News*, Cyranoski, D, **422**, 6
Biodefence plans earn lukewarm response from US academics, *News*, Check, E, **422**, 245
Chicken flu races through Dutch poultry farms, *News*, Abbott, A, **422**, 247
Health labs focus on mystery pneumonia, *News*, Cyranoski, D, **422**, 247
Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **422**, 307
Mystery virus slow to yield its identity as patient numbers rise, *News*, Pearson, H, **422**, 364
Cold Wars: The Fight Against the Common Cold, Tyrrell, D, Fielder, M, *Book review by* Dimmock, N, **422**, 379
China joins investigation of mystery pneumonia, *News*, Cyranoski, D, **422**, 459
There are two sides to biodefence, *Opinion*, **422**, 545
Cancer conference scrapped as outbreak intensifies, *News*, Clarke, T, **422**, 547
Researchers get to grips with cause of pneumonia epidemic, *News*, Knight, J, **422**, 547
Chinese authorities admit mishandling of Guangdong crisis, *News*, Cyranoski, D, **422**, 548
Spread of bird flu triggers Dutch Easter egg hunt, *News in brief*, **422**, 552
Human fatality adds fresh impetus to fight against bird flu, *News*, Abbott, A, **423**, 5
AIDS researchers seek criteria for vaccines, *News*, Check, E, **423**, 107
Corrigendum: Short interfering RNA confers intracellular antiviral immunity in human cells, *Letter to Nature*, Gitlin, L, Karelsky, S, Andino, R, **423**, 197
Erratum: Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **423**, 197
Researchers rue hasty destruction of wheat, *News*, Dennis, C, **423**, 210
Addendum: HIV-1 superinfection despite broad CD8$^+$ T-cell responses containing replication of the primary virus, *Letter to Nature*, Altfeld, M, Allen, T M, Yu, X G, Johnston, M N, Agrawal, D, Korber, B T, Montefiori, D C, O'Connor, D H, Davis, B T, Lee, P K, Maier, E L, Harlow, J, Goulder, P J R, Brander, C, Rosenberg, E S, Walker, B D, **423**, 461
Biologists moot daunting plan to track viruses, *News*, Knight, J, Abbott, A, **423**, 471
Harmful potential of viral vectors fuels doubts over gene therapy, *News*, Check, E, **423**, 573
Prairie-dog model offers hope of tackling monkeypox virus, *News*, Knight, J, **423**, 674
Living with the AIDS Virus: The Epidemic and the Response in India, Panda, S, Chatterjee, A, Abdul-Quader, A S, *Book review by* Priya, R, **423**, 685
Good to CU, *News and views*, Gu, Y, Sundquist, W I, **424**, 21
Biophysics: Symmetry by design, *News and views*, Ball, P, **424**, 31
The cytidine deaminase CEM15 induces hypermutation in newly synthesized HIV-1 DNA, *Letter to Nature*, Zhang, H, Yang, B, Pomerantz, R J, Zhang, C, Arunachalam, S C, Gao, L, **424**, 94
Broad antiretroviral defence by human APOBEC3G through lethal editing of nascent reverse transcripts, *Letter to Nature*, Mangeat, B, Turelli, P, Caron, G, Friedli, M, Perrin, L, Trono, D, **424**, 99
Viral infection switches non-plasmacytoid dendritic cells into high interferon producers, *Letter to Nature*, Diebold, S S, Montoya, M, Unger, H, Alexopoulou, L, Roy, P, Haswell, L E, Al-Shamkhani, A, Flavell, R, Borrow, P, Reis e Sousa, C, **424**, 324
WHO prepares for final push to rid the world of polio, *News*, Butler, D, **424**, 604
Bacterial photosynthesis genes in a virus, *Brief communication*, Mann, N H, Cook, A, Millard, A, Bailey, S, Clokie, M, **424**, 741
High diversity of unknown picorna-like viruses in the sea, *Letter to Nature*, Culley, A I, Lang, A S, Suttle, C A, **424**, 1054
RNA to the rescue?, *News feature*, Check, E, **425**, 10
Immunology: Hepatitis A virus link to atopic disease, *Brief communication*, McIntire, J J, Umetsu, S E, Macaubus, C, Hoyte, E G,

Cinnioglu, C, Cavalli-Sforza, L L, Barsh, G S, Hallmayer, J F, Underhill, P A, Risch, N J, Freeman, G J, DeKruyff, R H, Umetsu, D T, **425**, 576
Medicine: Cancer-killing virus on a drip, *News and views*, Heemels, M-T, **426**, 28
Medicine: Virus offers life support to cancer, *News and views*, Heemels, M-T, **426**, 242
Epidemics-in-waiting, *News and views*, Bull, J, Dykhuizen, D, **426**, 609
The role of evolutionary in the emergence of infectious diseases, *Letter to Nature*, Antia, R, Regoes, R R, Koella, J C, Bergstrom, C T, **426**, 658
Recognition of small interfering RNA by a viral suppressor of RNA-silencing, *Letter to Nature*, Ye, K, Malinina, L, Patel, D J, **426**, 874
See also coronaviruses
viruses, Ebola, Ape populations decimated by hunting and Ebola virus, *News*, Whitfield, J, **422**, 551
Fast vaccine offers hope in battle with Ebola, *News*, Clarke, T, Knight, J, **424**, 602
Accelerated vaccination for Ebola virus haemorrhagic fever in non-human primates, *Letter to Nature*, Sullivan, N J, Geisbert, T W, Geisbert, J B, Xu, L, Yang, Z-Y, Roederer, M, Koup, R A, Jahrling, P B, Nabel, G J, **424**, 681
viruses, HIV, Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **422**, 307
Sexual transmission of HIV in Africa, *Brief communication*, Walker, P R, Worobey, M, Rambaut, A, Holmes, E C, Pybus, O G, **422**, 679
Erratum: Antibody neutralization and escape by HIV-1, *Letter to Nature*, Wei, X, Decker, J M, Wang, S, Hui, H, Kappes, J C, Wu, X, Salazar-Gonzalez, J F, Salazar, M G, Kilby, J M, Saag, M S, Komarova, N L, Nowak, M A, Hahn, B H, Kwong, P D, Shaw, G M, **423**, 197
The gene product Murr1 restricts HIV-1 replication in resting CD4$^+$ lymphocytes, *Letter to Nature*, Ganesh, L, Burstein, E, Guha-Niyogi, A, Louder, M K, Mascola, J R, Klomp, L W J, Wijmenga, C, Duckett, C S, Nabel, G J, **426**, 853
viruses, influenza, Vaccine sought as bird flu infects humans, *News*, Cyranoski, D, **422**, 6
Ecological and immunological determinants of influenza evolution, *Letter to Nature*, Ferguson, N M, Galvani, A P, Bush, R M, **422**, 428
Virology: Pigs duck out of the influenza mix, *News and views*, Clarke, T, **423**, 702
viruses, plant, The earliest recorded plant virus disease, *Brief communication*, Saunders, K, Bedford, I D, Yahara, T, Stanley, J, **422**, 831
Pathogen-induced systemic plant signal triggers DNA rearrangements, *Letter to Nature*, Kovalchuk, I, Kovalchuk, O, Kalck, V, Boyko, V, Filkowski, J, Heinlein, M, Hohn, B, **423**, 760
viruses, smallpox, Victims of smallpox vaccine 'should be compensated', *News in brief*, **422**, 106
Planning for smallpox outbreaks, *Review article*, Ferguson, N M, Keeling, M J, Edmunds, W J, Gani, R, Grenfell, B T, Anderson, R M, Leach, S, **425**, 681
viruses, West Nile, US fails to quantify threat of West Nile virus, *News*, Hoag, H, **423**, 104
West Nile virus completes coast-to-coast journey, *News in brief*, **424**, 988
visas, Congressmen unmoved by foreigners' plight, *News*, Brumfiel, G, **422**, 457
Researchers rage at tightened restrictions on US immigration, *News*, Brumfiel, G, **422**, 457
Physicist discouraged by heightened security, *News*, Brumfiel, G, **422**, 458
Lack of trained security staff delays US visas, *Correspondence*, McSweegan, E, **423**, 115
Visa rules leave US colleges facing semester of discontent, *News*, Brumfiel, G, **423**, 906
Academic hopefuls set for pole position in US visa applications, *News in brief*, **424**, 120
US visa problems curb rise in foreign students, *News in brief*, **424**, 362
visceral muscle fusion, Jeb signals through the Alk receptor tyrosine kinase to drive visceral muscle fusion, *Letter to Nature*, Englund, C, Loren, C E, Grabbe, C, Varshney, G K, Deleuil, F, Hallberg, B, Palmer, R H, **425**, 512
visceral muscle precursors, Jelly belly protein activates the receptor tyrosine kinase Alk to specify visceral muscle pioneers, *Letter to Nature*, Lee, H-H, Norris, A, Weiss, J B, Frasch, M, **425**, 507
vision, The retina's fancy tricks, *News and views*, Masland, R H, **423**, 387
Vision: Sea gypsies see shells on the sea floor, *News and views*, Pilcher, H R, **423**, 395
Segregation of object and background motion in the retina, *Article*, Ölveczky, B P, Baccus, S A, Meister, M, **423**, 401
Vision: In the eye of the beholder, *News and views*, Whitfield, J, **425**, 678
Vision: An eye for colour, *News and views*, Pilcher, H R, **426**, 618
visual cortex, Neuronal synchrony does not correlate with motion coherence in cortical area MT, *Letter to Nature*, Thiele, A, Stoner, G, **421**, 366
Mapping stimulus features in the population response of visual cortex, *Letter to Nature*, Basole, A, White, L E, Fitzpatrick, D, **423**, 986
Spontaneously emerging cortical representations of visual attributes, *Letter to Nature*, Kenet, T, Bibitchkov, D, Tsodyks, M, Grinvald, A, Arieli, A, **425**, 954
Parallel colour-opponent pathways to primary visual cortex, *Letter to Nature*, Chatterjee, S, Callaway, E M, **426**, 668
visual motion, Perceptual consequences of centre-surround antagonism in visual motion processing, *Letter to Nature*, Tadin, D, Lappin, S, Gilroy, L A, Blake, R, **424**, 312
visual perception, Rhodopsin dimers in native disc membranes, *Brief communication*, Fotiadis, D, Liang, Y, Filipek, S, Saperstein, D A, Engel, A, Palczewski, K, **421**, 127
Robust judgement of inter-object distance by an arthropod, *Letter to Nature*, Hemmi, J M, Zell, J, **421**, 160
Neuronal synchrony does not correlate with motion coherence in cortical area MT, *Letter to Nature*, Thiele, A, Stoner, G, **421**, 366
Selective gating of visual signals by microstimulation of frontal cortex, *Letter to Nature*, Moore, T, Armstrong, K M, **421**, 370
Inhibitory feedback required for network oscillatory responses to communication but not prey stimuli, *Letter to Nature*, Doiron, B, Chacron, M J, Maler, L, Longtin, A, Bastian, J, **421**, 539
Optimal transsaccadic integration explains distorted spatial perception, *Letter to Nature*, Niemeler, M, Crawford, J D, Tweed, D B, **422**, 76
The influence of visual motion on fast reaching movements to a stationary object, *Letter to Nature*, Whitney, D, Westwood, D A, Goodale, M A, **423**, 869
Why We See What We Do: An Empirical Theory of Vision, Purves, D, Lotto, R B, *Book review by* Morgan, M, **423**, 919
Melanopsin and rod-cone photoreceptive systems account for all major accessory visual functions in mice, *Letter to Nature*, Hattar, S, Lucas, R J, Mrosovsky, N, Thompson, S, Douglas, R H, Hankins, M W, Lem, J, Biel, M, Hofmann, F, Foster, R G, Yau, K-W, **424**, 76
Sustained division of the attentional spotlight, *Letter to Nature*, Müller, M M, Malinowski, P, Gruber, T, Hillyard, S A, **424**, 309
Neural correlates of implied motion, *Letter to Nature*, Krekelberg, B, Dannenberg, S, Hoffman, K-P, Bremmer, F, Ross, J, **424**, 674
Role of visual pigment properties in rod and cone phototransduction, *Letter to Nature*, Kefalov, V, Fu, Y, Marsh-Armstrong, N, Yau, K-W, **425**, 526
Neuroscience: States of mind, *News and views*, Ringach, D L, **425**, 912
Spontaneously emerging cortical representations of visual attributes, *Letter to Nature*, Kenet, T, Bibitchkov, D, Tsodyks, M, Grinvald, A, Arieli, A, **425**, 954
Corrigendum: Sustained division of the attentional spotlight, *Letter to Nature*, Muller, M M, Malinowski, P, Gruber, T, Hillyard, S A, **426**, 584
Visual control of action but not perception requires analytical processing of object shape, *Letter to Nature*, Ganel, T, Goodale, M A, **426**, 664
visual pigments, Role of visual pigment properties in rod and cone phototransduction, *Letter to Nature*, Kefalov, V, Fu, Y, Marsh-Armstrong, N, Yau, K-W, **425**, 526
visual selective attention, Action video game modifies visual selective attention, *Letter to Nature*, Green, C S, Bavelier, D, **423**, 534
visual stimuli, Mapping stimulus features in the population response of visual cortex, *Letter to Nature*, Basole, A, White, L E, Fitzpatrick, D, **423**, 986
visuomotor processing, Opposing basal ganglia processes shape midbrain visuomotor activity bilaterally, *Letter to Nature*, Jiang, H, Stein, B E, McHaffie, J G, **423**, 982
vitamins, Nutrional biochemistry: A new redox-cofactor vitamin for mammals, *Brief communication*, Kasahara, T, Kato, T, **422**, 832
vocalization, Neuronal populations and single cells representing learned auditory objects, *Letter to Nature*, Gentner, T Q, Margoliash, D, **424**, 669
Vogt, Cécile, Cécile and Oskar Vogt: The Visionaries of Modern Neuroscience, Klatzo, I, Zu Rhein, G, *Book review by* Jones, E G, **421**, 19
Vogt, Oskar, Cécile and Oskar Vogt: The Visionaries of Modern Neuroscience, Klatzo, I, Zu Rhein, G, *Book review by* Jones, E G, **421**, 19
volcanic plumes, Detection of bromine monoxide in a volcanic plume, *Letter to Nature*, Bobrowski, N, Honninger, G, Galle, B, Platt, U, **423**, 273
High ^{3}He/^{4}He ratios in picritic basalts from Baffin Island and the role of a mixed reservoir in mantle plumes, *Letter to Nature*, Stuart, F M, Lass-Evans, S, Fitton, J G, Ellam, R M, **424**, 57
volcanoes, A window on the inner Earth, *News feature*, Dalton, R, **421**, 10
Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus, *Letter to Nature*, Lellouch, E, Paubert, G, Moses, J I, Schneider, N M, Strobel, D F, **421**, 45
Interaction between Kilauea and Mauna Loa, *Brief communication*, Miklius, A, Cervelli, P, **421**, 229
Planetary science: Volcanism or aqueous alteration on Mars?, *Brief communication*, Hamilton, V E, Christensen, P R, Bandfield, J L, **421**, 711
Reply: Planetary science: Volcanism or aqueous alteration on Mars?, *Brief communication*, Wyatt, M B, McSween Jr, H Y, **421**, 712
Human footprints in Pleistocene volcanic ash, *Brief communication*, Mietto, P, Avanzini, M, Rolandi, G, **422**, 133
Archaean ultra-depleted komatiites formed by hydrous melting of cratonic mantle, *Letter to Nature*, Wilson, A H, Shirey, S B, Carlson, R W, **423**, 858
Planetary science: Less of an impact, *News and views*, Mason, B, **425**, 573
Global change: Eruptions linked to El Niño, *News and views*, de Silva, S, **426**, 239
Proxy evidence of an El Niño-lke response to volcanic forcing, *Letter to Nature*, Adams, J B, Mann, M E, Ammann, C M, **426**, 274
Explosive volcanism may not be an inevitable consequence of magma fragmentation, *Letter to Nature*, Gonnermann, H M, Manga, M, **426**, 432
Volcano breathed life into Munch's Scream, *News in brief*, **426**, 747
Volta, Alessandro, Volta: Science and Culture in the Age of Enlightenment, Pancaldi, G, *Book review by* Fregonese, L, **424**, 999
voltage sensors, Life's transistors, *News and views*, Sigworth, F J, **423**, 21
X-ray structure of a voltage-dependent K$^+$ channel, *Article*, Jiang, Y, Lee, A, Chen, J, Ruta, V, Cadene, M, Chait, B T, MacKinnon, R, **423**, 33
The principle of gating charge movement in a voltage-dependent K$^+$ channel, *Article*, Jiang, Y, Ruta, V, Chen, J, Lee, A, MacKinnon, R, **423**, 42
voltage-dependent ion channels, Functional analysis of an archaebacterial voltage-dependent K$^+$ channel, *Letter to Nature*, Ruta, V, Jiang, Y, Lee, A, Chen, J, MacKinnon, R, **422**, 180
X-ray structure of a voltage-dependent K$^+$ channel, *Article*, Jiang, Y, Lee, A, Chen, J, Ruta, V, Cadene, M, Chait, B T, MacKinnon, R, **423**, 33
The principle of gating charge movement in a voltage-dependent K$^+$ channel, *Article*, Jiang, Y, Ruta, V, Chen, J, Lee, A, MacKinnon, R, **423**, 42
voltage-gated ion channels, Life's transistors, *News and views*, Sigworth, F J, **423**, 21
voltage-sensor paddles, X-ray structure of a voltage-dependent K$^+$ channel, *Article*, Jiang, Y, Lee, A, Chen, J, Ruta, V, Cadene, M, Chait, B T, MacKinnon, R, **423**, 33
The principle of gating charge movement in a voltage-dependent K$^+$ channel, *Article*, Jiang, Y, Ruta, V, Chen, J, Lee, A, MacKinnon, R, **423**, 42
Volvox carteri, Developmental biology: How to turn inside out, *News and views*, Schmitt, R, Sumper, M, **424**, 499
von Goethe, Johann Wolfgang, Complexity may teach us a simple lesson, *Correspondence*, Sierk, M, **421**, 573
von Hippel–Lindau tumour suppressor protein, Cancer: Cues for migration, *News and views*, Bernards, R, **425**, 247
Chemokine receptor CXCR4 downregulated by von Hippel–Lindau tumour suppressor pVHL, *Letter to Nature*, Staller, P, Sulitkova, J, Lisztwan, J, Moch, H, Oakeley, E J, Krek, W, **425**, 307
vortex rings, Fluid dynamics: Vortex rings in a constant electric field, *Brief communication*, Grier, D G, **424**, 267
vortices, Condensed-matter physics: Vortices and hearts, *News and views*, Clarke, J, **425**, 133
Quantum dynamics of a single vortex, *Letter to Nature*, Wallraff, A, Lukashenko, A, Lisenfeld, J, Kemp, A, Fistul, V, Koval, Y, Ustinov, A V, **425**, 155
Vostok research station, Russia pulls out of Antarctic station, *News*, MacWilliams, B, **422**, 104
Voyager spacecraft, Over the edge?, *News and views*, Fisk, L A, **426**, 21
Voyager 1 excited the solar wind at a distance of ~85 AU from the Sun, *Letter to Nature*, Krimigis, S M, Decker, R B, Hill, M E, Armstrong, T P, Gloeckler, G, Hamilton, D C, Lanzerotti, L J, Roelof, E C, **426**, 45
Enhancements of energetic particles near the heliospheric termination shock, *Letter to Nature*, McDonald, F B, Stone, E C, Cummings, A C, Heikkila, B, Lal, N, Webber, W R, **426**, 48

wallabies, Wallaby hops into running for genome sequence, *News in brief*, **421**, 778
Wallace, Alfred, Making a song and dance about emotion, *Correspondence*, Marshall, R C, **423**, 221
Walp, Glenn, Sacked Los Alamos man wins cash payout, *News in brief*, **424**, 988
Walport, Mark, London medic makes short trip to head Wellcome Trust, *News in brief*, **421**, 567
warfare, Civil war leaves Ivory Coast research in tatters, *News*, Degen, M, **421**, 680
Oil and war: we had the warning 30 years ago, *Correspondence*, Jennings, M D, **423**, 15
Why should we help politicians to wage war?, *Correspondence*, Amit, D, **423**, 683
warfarin, Crystal structure of human cytochrome P450 2C9 with bound warfarin, *Letter to Nature*, Williams, P A, Cosme, J, Ward, A, Angove, H C, Vinkovic, D M, Jhoti, H, **424**, 464
Washington Cascades, Coupled spatial variations in precipitation, *Letter to Nature*, Reiners, P W, Ehlers, T A, Mitchell, S G, Montgomery, D R, **426**, 645
water, The importance of water to oceanic mantle melting regimes, *Article*, Asimow, P D, Langmuir, C H, **421**, 815
How to slake a planet's thirst, *Opinion*, **422**, 242
The world's forgotten crisis, *News feature*, Aldhous, P, **422**, 251
Conflicts undermine global forum's push for safe water, *News*, Cyranoski, D, **422**, 364
Chemical physics: How to keep dry in water, *News and views*, Ball, P, **423**, 25
Water from Heaven: The Story of Water from the Big Bang to the Rise of Civilization, and Beyond, Kandel, R, *Book review by* Hillel, D, **423**, 587
African project seeks model solution to water shortage, *News*, Schiermeier, Q, **424**, 359
Water batteries make a splash in electric field, *News in brief*, **425**, 757

water dimers, Atmospheric chemistry: Water molecules pair in air, *News and views*, Ball, P, **424**, 31
water striders, How to walk on water, *News and views*, Dickson, M, **424**, 621
The hydrodynamics of water strider locomotion, *Letter to Nature*, Hu, D L, Chan, B, Bush, J W M, **424**, 663
water supply, World water shortage predicted as pollution problem worsens, *News in brief*, **422**, 8
Archaeology: Tall story, *News and views*, Ball, P, **422**, 677
India pledges deluge of funds to water plan, *News*, Jayaraman, K S, **422**, 790
Studies assess risks of drugs in water cycle, *News*, Schiermeier, Q, **424**, 5
Geologists call for desalination of Gaza Strip's water, *News*, Mason, B, **426**, 110
water transport in plants, Water transport in plants obeys Murray's law, *Letter to Nature*, McCulloh, K A, Sperry, J S, Adler, F R, **421**, 939
The ascent of water, *Concepts*, Tyree, M T, **423**, 923
Getting to the heart of transpiration in plants, *Correspondence*, Tanner, W, **424**, 613
water vapour, Interaction of sea water and lava during submarine eruptions at mid-ocean ridges, *Letter to Nature*, Perfit, M R, Cann, J R, Fornari, D J, Engels, J, Smith, D K, Ridley, W I, Edwards, M H, **426**, 62
water worlds, Water worlds make a splash as the best hope for alien life, *News*, Schiermeier, Q, **424**, 866
water-borne disease, Delta blues, *News feature*, Clarke, T, **422**, 254
Watson, Hewett Cottrell, Hewett Cottrell Watson: Victorian Plant Ecologist and Evolutionist, Egerton, F N, *Book review by* Bellon, R, **423**, 589
Watson, James, Watson and DNA: Making a Scientific Revolution, McElheny, V K, *Book review by* Gilbert, W, **421**, 315
How genius can smooth the road to publication, *Correspondence*, Brummer, J, **426**, 119
Reply: How genius can smooth the road to publication, *Correspondence*, Maddox, J, **426**, 119
Inspiring Science: Jim Watson and the Age of DNA, Inglis, J, Sambrook, J, Witkowski, J, *Book review by* Olby, R, **426**, 229
Watt, James, Watt's lots of steam, *News in brief*, **422**, 250
wave behaviour, Solitary wave behaviour of sand dunes, *Brief communication*, Schwammle, V, Herrmann, H J, **426**, 619
wave generation, Dynamical coupling of wind and ocean waves through wave-induced air flow, *Letter to Nature*, Hristov, T S, Miller, S D, Friehe, C A, **422**, 55
wave motion, An electronic Mach–Zehnder interferometer, *Letter to Nature*, Ji, Y, Chung, Y, Sprinzak, D, Heiblum, M, Mahalu, D, Shtrikman, H, **422**, 415
wave packet pairs, Probing molecular dynamics with attosecond resolution using correlated wave packet pairs, *Letter to Nature*, Niikura, H, Légaré, F, Hasbani, R, Ivanov, M Y, Villeneuve, D M, Corkum, P B, **421**, 826
wave power, Experts cast doubt on Britain's green energy ambitions, *News*, McDowell, N, **421**, 879
WAVE2 protein, WAVE2 is required for directed cell migration and cardiovascular development, *Letter to Nature*, Yamazaki, D, Suetsugu, S, Miki, H, Kataoka, Y, Nishikawa, S-I, Fujiwara, T, Yoshida, N, Takenawa, T, **424**, 452
waveguide lattices, Discretizing light behaviour in linear and nonlinear waveguide lattices, *Insight review article*, Christodoulides, D M, Lederer, F, Silberberg, Y, **424**, 817
waveguides, Subwavelength-diameter silica wires for low-loss optical wave guiding, *Letter to Nature*, Tong, L, Gattass, R R, Ashcom, J B, He, S, Lou, J, Shen, M, Maxwell, I, Mazur, E, **426**, 816
waves, The effects of surfactants on spilling breaking waves, *Letter to Nature*, Liu, X, Duncan, J H, **421**, 520
Long-lost wave report sinks asteroid impact theory, *News*, Dalton, R, **421**, 679
Dynamical coupling of wind and ocean waves through wave-induced air flow, *Letter to Nature*, Hristov, T S, Miller, S D, Friehe, C A, **422**, 55
waves, internal, Mixing with latitude, *News and views*, Garrett, C, **422**, 477
Reduced mixing from the breaking of internal waves in equatorial waters, *Letter to Nature*, Gregg, M C, Sanford, T B, Winkel, D P, **422**, 513
Redistribution of energy available for ocean mixing by long-range propagation of internal waves, *Letter to Nature*, Alford, M H, **423**, 159
WD-40 protein, Gene regulation: Versatile assembler, *News and views*, Henikoff, S, **423**, 814
weakly interacting massive particles (WIMPs), The dark side, *News and views feature*, Fukugita, M, **422**, 489
weapons, Experts find fault with US plan to intercept missiles at source, *News*, Brumfiel, G, **424**, 240
weapons of mass destruction, Inspectors face uphill struggle in search for banned weapons in Iraq, *News*, McDowell, N, **422**, 362
Facing the nuclear danger, *Opinion*, **426**, 213
weapons, non-lethal, Work on 'non-lethal' weapons should be limited too, *Correspondence*, Singh, J A, **422**, 113
weather, *See also* climate change, Insurers left reeling by disaster year, *News*, Schiermeier, Q, **421**, 99
China plans clean sweep on dust storms, *News*, Cyranoski, D, **421**, 101
Global change: Monsoon linkages, *News and views*, Zahn, R, **421**, 324
Storms from the Sun: The Emerging Science of Space Weather, Carlowicz, M J, Lopez, R E, *Book review by* Singer, H J, **422**, 21
Atmospheric science: Quick, quick, slow, *News and views*, Lincoln, T, **422**, 132
Meteorology: Getting the wind up, *News and views*, Langenberg, H, **422**, 273
Reduced drag coefficient for high wind speeds in tropical cyclones, *Article*, Powell, M D, Vickery, P J, Reinhold, T A, **422**, 279
Mathematics: Regime change in meteorology, *News and views*, Stewart, I, **422**, 571
Airborne lab crews hope study will go down a storm, *News in brief*, **423**, 214
Repositioned Sun satellite beams in weather reports, *News in brief*, **423**, 910
Bleak forecast for space weather, *News*, Reichhardt, T, **425**, 649
Laser satellite blows wind of change for weather studies, *News in brief*, **425**, 757
Weather Project, Installation: Making haze, *Book review*, Martin, C, **426**, 123
websites, Planet Jemma, *Website review*, Dennis, C, **426**, 499
weeds, Transgenic crop trial's gene flow turns weeds into wimps, *News*, Adam, D, **421**, 462
Gene flow might turn wimps into superweeds, *Correspondence*, Muth, N, **421**, 785
weevils, Structural colour: Opal analogue discovered in a weevil, *Brief communication*, Parker, A R, Welch, V L, Driver, D, Martini, N, **426**, 786
Weibull distribution, Expiry dates, *News and views*, Pimm, S, **426**, 235
Wellcome Trust (UK)
London medic makes short trip to head Wellcome Trust, *News in brief*, **421**, 567
Exhibition: The medicine man's museum, *Book review*, Abbott, A, **423**, 805
Wellcome to fund publication in open-access journals, *News*, Butler, D, **425**, 440
Werner's syndrome, A progeroid syndrome in mice is caused by defects in A-type lamins, *Letter to Nature*, Mounkes, L C, Kozlov, S, Hernandez, L, Sullivan, T, Stewart, C L, **423**, 298
DNA helicase Srs2 disrupts the Rad51 presynaptic filament, *Letter to Nature*, Krejci, L, Van Komen, S, Li, Y, Villemain, J, Sreedhar Reddy, M, Klein, H, Ellenberger, T, Sung, P, **423**, 305
West Nile virus, US fails to quantify threat of West Nile virus, *News*, Hoag, H, **423**, 104
West Nile virus completes coast-to-coast journey, *News in brief*, **424**, 988
Western Europe, Precise dating of Dansgaard-Oeschger climate oscillations in western Europe from stalagmite data, *Letter to Nature*, Genty, D, Blamart, D, Ouahdi, R, Gilmour, M, Baker, A, Jouzel, J, Van-Exter, S, **421**, 833
wetlands ecosystem, South Korea accused of leaving birds out to die in Wetland project, *News in brief*, **424**, 988
Crop freezes and land-use change in Florida, *Brief communication*, Marshall, C H, Pielke Sr, R A, Steyaert, L T, **426**, 29
wetting properties, Wetting properties: When larger drops evaporate faster, *Brief communication*, Leizerson, I, Lipson, S G, Lyushnin, A V, **422**, 395
whales, Noise protests drown out whale sonar tests, *News in brief*, **421**, 202
Whaling group backs conservation, *News*, Westney, C, **423**, 789
Whale genetics study leaves conservationists all at sea, *News*, Clarke, T, Knight, J, **424**, 479
Scientists split over regulations on sonar use, *News*, Dalton, R, **425**, 549
Gas-bubble lesions in stranded cetaceans, *Brief communication*, Jepson, P D, Arbelo, M, Deaville, R, Patterson, I A P, Castro, P, Baker, J R, Degollada, E, Ross, H M, Herraez, P, Pocknell, A M, Rodriguez, F, Howie, F E, Espinosa, A, Reid, R J, Jaber, J R, Martin, V, Cunningham, A A, Fernandez, A, **425**, 575
Whale of a catch blows hole in family tree, *News*, Cyranoski, D, **426**, 219
A newly discovered species of living baleen whale, *Letter to Nature*, Wada, S, Oishi, M, Yamada, T K, **426**, 278
wheat, Traditional wheat breeder fights for funding, *News*, Dalton, R, **423**, 790
wheat streak mosaic virus, Researchers rue hasty destruction of wheat, *News*, Dennis, C, **423**, 210
whiskers, Neurobiology: Whisked to perfection by serotonin, *News and views*, Pilcher, H R, **424**, 507
White Nile, Hydrology: White Nile past, *News and views*, Clarke, T, **426**, 136
Whose View of Life? Embryos, Cloning and Stem Cells, Maienschein, J, *Book review by* Winston, R, **426**, 603
Wiestler, Otmar, Cancer centre finally finds its head, *News in brief*, **426**, 596
wild animals, Fingerprints of global warming on wild animals and plants, *Letter to Nature*, Root, T L, Price, J T, Hall, K R, Schneider, S H, Rosenzweig, C, Pounds, J A, **421**, 57
Virus detectives seek source of SARS in China's wild animals, *News*, Cyranoski, D, Abbott, A, **423**, 467
wildlife, Zoologists prime traps for California wildlife survey, *News*, Knight, J, **424**, 987
Wilkie, Andrew, Oxford professor accused of discrimination over e-mail, *News*, Watzman, H, **424**, 7
Oxford don penalized for outburst at Israeli, *News in brief*, **424**, 120
Oxford don suspended for political gate, *News in brief*, **426**, 8
Wilkins, Maurice, DNA discrepancy, *Correspondence*, May, A, **421**, 210
Despite Franklin's work, Wilkins earned his Nobel, *Correspondence*, Zallen, D T, **425**, 15
The Third Man of the Double Helix: The Autobiography of Maurice Wilkins, Wilkins, M, *Book review by* Gosling, R, **425**, 901
Wilkinson Microwave Anisotropy Probe, Cosmologists look forward to clearer picture, *News*, Reichhardt, T, **421**, 777
Cosmology: Welcome to the real world, *News feature*, Brumfiel, G, **426**, 751
Willumsen, Jens Ferdinand, Seeing the light, *Exhibition review*, Martin, C, **426**, 387
wind, Dynamical coupling of wind and ocean waves through wave-induced air flow, *Letter to Nature*, Hristov, T S, Miller, S D, Friehe, C A, **422**, 55
Meteorology: Getting the wind up, *News and views*, Langenberg, H, **422**, 273
Laser satellite blows wind of change for weather studies, *News in brief*, **425**, 757
Climate: Warmth, wind and water, *News and views*, Lincoln, T, **426**, 514
wind power, Experts cast doubt on Britain's green energy ambitions, *News*, McDowell, N, **421**, 879
wind speed, Reduced drag coefficient for high wind speeds in tropical cyclones, *Article*, Powell, M D, Vickery, P J, Reinhold, T A, **422**, 279
wind-borne information, Animal behaviour: Homing is a breeze for sea turtles, *News and views*, Sims, D W, **423**, 128
wind-wave coupling, Dynamical coupling of wind and ocean waves through wave-induced air flow, *Letter to Nature*, Hristov, T S, Miller, S D, Friehe, C A, **422**, 55
wine, Drinking your health? It's too early to say, *Correspondence*, Corder, R, Crozier, A, Kroon, P A, **426**, 119
Winfree, Arthur T, Obituary: Arthur T. Winfree (1942–2002), *News and views*, Glass, L, **421**, 34
wing-assisted incline running, Biomechanics: Early birds surmount steep slopes, *News and views*, Hutchinson, J R, **426**, 777
wings, Loss and recovery of wings in stick insects, *Letter to Nature*, Whiting, M F, Bradler, S, Maxwell, T, **421**, 264
Winging it, *Book review*, Purton, M, **426**, 605
Wireless Genome Information Database, The latest genomics, straight to your phone, *News in brief*, **422**, 8
Wirtanen comet, Comet mission hangs in the balance, *News*, Adam, D, Butler, D, **421**, 102
Wiskott-Aldrich syndrome protein, The cytoskeleton, cellular motility and the reductionist agenda, *Insight overview*, Pollard, T D, **422**, 741
Wnt signal pathways, Developmental biology: How neurons avoid derailment, *News and views*, Garrity, P A, **422**, 570
Wnt-mediated axon guidance via the *Drosophila* Derailed receptor, *Article*, Yoshikawa, S, McKinnon, R D, Kokel, M, Thomas, J B, **422**, 583
A role for Wnt signalling in self-renewal of haematopoietic stem cells, *Article*, Reya, T, Duncan, A W, Ailles, L, Domen, J, Scherer, D C, Willert, K, Hintz, L, Nusse, R, Weissman, I L, **423**, 409
Wnt proteins are lipid-modified and can act as stem cell growth factors, *Letter to Nature*, Willert, K, Brown, J D, Danenberg, E, Duncan, A W, Weissman, I L, Reya, T, Yates III, J R, Nusse, R, **423**, 448
An ancient role for nuclear β-catenin in the evolution of axial polarity and germ layer segregation, *Letter to Nature*, Wikramanayake, A H, Hong, M, Lee, P N, Pang, K, Byrum, C A, Bince, J M, Xu, R, Martindale, M Q, **426**, 446
Wnt/β-catenin, The Wnt/β-catenin pathway regulates cardiac valve formation, *Letter to Nature*, Hurlstone, A F L, Haramis, A-P G, Wienholds, E, Begthel, H, Korving, J, van Eeden, F, Cuppen, E, Zivkovic, D, Plasterk, R H A, Clevers, H, **425**, 633
Wolfram, Stephen, Esoteric theorist lands starring role in Senate hearing, *News*, Brumfiel, G, **425**, 113
wolves, Wolves under threat as rabies outbreak bites, *News in brief*, **425**, 892
women in science, Women's career award crosses gender divide, *News in brief*, **424**, 362
Women struggle towards top of career ladder, *News in brief*, **426**, 8
Planet Jemma, *Website review*, Dennis, C, **426**, 499
word recognition, Cognitive neuroscience: Practice doesn't make perfect, *News and views*, Geisler, W, Murray, R, **423**, 696
The remarkable inefficiency of word recognition, *Letter to Nature*, Pelli, D G, Farell, B, Moore, D C, **423**, 752
World Bank, Worldwide agricultural effort aims to help world's poor, *News in brief*, **424**, 606
World Climate Change Conference, Researchers rattled as Kyoto Protocol hangs in the balance, *News*, Schiermeier, Q, **423**, 792
World Conservation Union, Endangered footage finds an online ark, *News in brief*, **424**, 480
Mixed results for conservation efforts leave species dying, *News in brief*, **425**, 230
World Health Organization, Mozambique prime minister tipped for global health post, *News*, Butler, D, **421**, 302
TB medic wins global health post, *News*, Butler, D, **421**, 463
Health labs focus on mystery pneumonia, *News*, Cyranoski, D, **422**, 247
Mystery virus slow to yield its identity as patient numbers rise, *News*, Pearson, H, **422**, 364
Aid workers fear impending disaster in Basra, *News*, Schiermeier, Q, Kramer, T, **422**, 459
Diagnostic drive aims to combat killer diseases, *News in brief*, **423**, 472
WHO issues rallying cry to keep fight against SARS on track, *News*, Cyranoski, D, **423**, 905
We have been warned, *Opinion*, **424**, 113
WHO prepares for final push to rid the world of polio, *News*, Butler, D, **424**, 604
World Innovation Foundation, Was visionary Seaborg from far-sighted stock?, *Correspondence*, Palmer, A R, **421**, 473

- **World Intellectual Property Association**, Spiritual link is part of traditional knowledge, *Correspondence*, Kitchikeesic Juden, L, **421**, 313
- **World Intellectual Property Organization**, Drive for patent-free innovation gathers pace, *News*, Butler, D, **424**, 118
  - Business backlash kills off software meeting, *News*, Butler, D, **424**, 984
- **World Meteorological Organization**, Antarctic data reveal hole truth about ozone, *News in brief*, **425**, 114
- **World Summit on Sustainable Development**, Conservation plans stymied by inadequate data, *News in brief*, **425**, 8
- **World Trade Organization**, Trade war: what is it good for?, *Opinion*, **423**, 367
  - Trade war looms as US launches challenge over transgenic crops, *News*, Knight, J, **423**, 369
  - A flight of fancy, *Opinion*, **423**, 903
  - A necessary setback for world trade, *Opinion*, **425**, 223
- **World War II**, Researcher uncovers truth behind wartime security slur, *News*, Dalton, R, **421**, 303
  - Letters reveal scale of German agency's Nazi corruption, *News*, Schiermeier, Q, **425**, 650
  - Hitler's Scientists: Science, War and the Devil's Pact, *Book review*, Cornwell, J, Macrakis, K, **425**, 766
- **3rd World Water Forum**, How to slake a planet's thirst, *Opinion*, **422**, 242
  - The world's forgotten crisis, *News feature*, Aldhous, P, **422**, 251
  - Conflicts undermine global forum's push for safe water, *News*, Cyranoski, D, **422**, 364
- **World Wide Web**, Poor farmers warned against Internet transgenic crop deals, *News*, Dalton, R, **421**, 776
  - Free access to publicly funded databases is essential, *Correspondence*, Bourne, P E, **421**, 786
  - Alien-hunters get scope to search, *News*, Whitfield, J, **422**, 249
  - Six Degrees: The Science of a Connected Age, Watts, D J, *Book review by* Adamic, L, **422**, 265
  - Axeing of website article sparks row at Max Planck, *News*, Abbott, A, **422**, 460
  - Progressing towards a biological names register, *Correspondence*, Patterson, D J, **422**, 661
  - Tomorrow's computing today, *News feature*, Butler, D, **422**, 799
  - Improving science through online commentary, *Correspondence*, Eagleman, D M, Holcombe, A O, **423**, 15
  - Einstein enthusiasts gain net benefit, *News in brief*, **423**, 374
  - Art: Science in site, *Book review by* Abbott, A, **423**, 385
  - International website to collate data on embryonic stem cells, *News in brief*, **423**, 578
  - Online comment could promote unfair criticism, *Correspondence*, Lumsden, A, Raff, M, Sanes, J R, **423**, 918
  - Ants join online colony to boost conservation efforts, *News*, Dalton, R, **424**, 242
  - Mammal experts get networking opportunity, *News in brief*, **424**, 480
  - Ant book deepens divide over web publishing, *News*, Dalton, R, **424**, 985
  - Experts fear network paralysis as computer worms blast Internet, *News*, Butler, D, **425**, 3
  - Global effort to plot climate change, *News*, Langenberg, H, **425**, 112
  - Biologists join physics preprint club, *News*, Butler, D, **425**, 548
  - Planet Jemma, *Website review*, Dennis, C, **426**, 499
  - Mathematics get fresh formula for web searches, *News in brief*, **426**, 596
  - Elsevier waves goodbye to BioMedNet web portal, *News*, Giles, J, **426**, 744
- **WORM memory**, A polymer/semiconductor write-once read-many-times memory, *Letter to Nature*, Moller, S, Perlov, C, Jackson, W, Taussig, C, Forrest, S R, **426**, 166
- **worms**, Environmental biology: Metallic worms turn, *News and views*, Whitfield, J, **424**, 740
- **wound healing**, Cell biology: Patches for wounded muscle, *News and views*, Ellis, J A, **423**, 129
  - Tissue repair: Gel brought to heal in mice, *News and views*, Pilcher, H R, **425**, 678
- **Wright Brothers**, The Wright Brothers and the Invention of the Aerial Eagle, Crouch, T, Jakab, P L, *Book review by* Nahum, A, **426**, 765
- **Wright, Orville**, Flying into history, *Correspondence*, Schmidhuber, J, **421**, 689

- **X chromosome**, The X in Sex: How the Chromosome Controls our Lives, Bainbridge, D, *Book review by* Marshall Graves, J A, **423**, 223
  - Inheritance of a pre-inactivated paternal X chromosome in early mouse embryos, *Letter to Nature*, Huynh, D, Lee, J T, **426**, 857
- **X-ray astronomy**, The Restless Universe: Understanding X-ray Astronomy in the Age of *Chandra* and *Newton*, Schlegel, E M, *Book review by* Piro, L, **421**, 21
- **X-ray emissions**, Astrophysics: Superficial resonance, *News and views*, Paerels, F, **423**, 697
  - The magnetic field of an isolated neutron star from X-ray cyclotron absorption lines, *Letter to Nature*, Bignami, G F, Caraveo, P A, De Luca, A, Mereghetti, S, **423**, 725
  - Astronomy: Heartbeats of a neutron star, *News and views*, Wagoner, R V, **424**, 27
  - Quasi-periodic X-ray brightness fluctuations in an accreting millisecond pulsar, *Letter to Nature*, Wijnands, R, van der Klis, M, Homan, J, Chakrabarty, D, Markwardt, C B, Morgan, E H, **424**, 44
- **X-ray flashes**, Astronomy: Beacons in the distant cosmos, *News and views*, Piro, L, **426**, 397
- **X-ray imaging**, Achromatic Fresnel optics for wideband extreme-ultraviolet and X-ray imaging, *Letter to Nature*, Wang, Y, Yun, W, Jacobsen, C, **424**, 50
- **X-ray microscopy**, Optics: X-ray microscopy lacks focus, *News and views*, Ball, P, **426**, 402
- **X-ray radiography**, Radiographic imaging with cosmic-ray muons, *Brief communication*, Borozdin, K N, Hogan, G E, Morris, C, Proedhorsky, W C, Saunders, A, Schultz, L J, Teasdale, M E, **422**, 277
- **X-rays**, High-voltage shock sparks fusion from X-ray crush, *News*, Brumfiel, G, **422**, 549
- **xenon**, Take a deep breath, *News feature*, Klarreich, E, **424**, 873
  - Chemistry: Internal combustion, *News and views*, Reimer, J, **426**, 508
- ***Xenopus***, A positive-feedback-based bistable 'memory module' that governs a cell fate decision, *Letter to Nature*, Xiong, W, Ferrell Jr, J E, **426**, 460
- ***Xenopus laevis***, Developmental biology: A tadpole's tale, *News and views*, Tromans, A, **425**, 250
  - Crystal structure of a zinc-finger-RNA complex reveals two modes of molecular recognition, *Letter to Nature*, Lu, D, Searles, A, Klug, A, **426**, 96
- ***Xenoturbella bocki***, You aren't what you eat, *News and views*, Gee, H, **424**, 885
  - *Xenoturbella* is a deuterostome that eats molluscs, *Letter to Nature*, Bourlat, S J, Nielsen, C, Lockyer, A E, Littlewood, D T J, Telford, M J, **424**, 925
- **Xpd**, Xpd/Ercc2 regulates CAK activity and mitotic progression, *Letter to Nature*, Chen, J, Larochelle, S, Li, X, Suter, B, **424**, 228
- **xylem**, Water transport in plants obeys Murray's law, *Letter to Nature*, McCulloh, K A, Sperry, J S, Adler, F R, **421**, 939
  - The ascent of water, *Concepts*, Tyree, M T, **423**, 923
  - APL regulates vascular tissue identity in *Arabidopsis*, *Letter to Nature*, Bonke, M, Thitamadee, S, Mahonen, A P, Hauser, M-T, Helariutta, Y, **426**, 181

- **Y chromosome**, Y: The Descent of Men, Jones, S, *Book review by* Marshall Graves, J A, **423**, 223
  - Genome biology: Tales of the Y chromosome, *News and views*, Willard, H F, **423**, 810
  - The male-specific region of the human Y chromosome is a mosaic of discrete sequence classes, *Article*, Skaletsky, H, Kuroda-Kawaguchi, T, Minx, P J, Cordum, H S, Hillier, L, Brown, L G, Repping, S, Pyntikova, T, Ali, J, Bieri, T, Chinwalla, A, Delehaunty, A, Delehaunty, K, Du, H, Fewell, G, Fulton, L, Fulton, R, Graves, T, Hou, S-F, Latrielle, P, Leonard, S, Mardis, E, Maupin, R, McPherson, J, Miner, T, Nash, W, Nguyen, C, Ozersky, P, Pepin, K, Rock, S, Rohlfing, T, Scott, K, Schultz, B, Strong, C, Tin-Wollam, A, Yang, S-P, Waterston, R H, Wilson, R K, Rozen, S, Page, D C, **423**, 825
  - Abundant gene conversion between arms of palindromes in human and ape Y chromosomes, *Letter to Nature*, Rozen, S, Skaletsky, H, Marszalek, J D, Minx, P J, Cordum, H S, Waterston, R H, Wilson, R K, Page, D C, **423**, 873
- **Yarkovsky effect**, Spin control for asteroids, *News and views*, Binzel, R P, **425**, 131
- **yeast**, Corrigendum: The genome sequence of *Schizosaccharomyces pombe*, *Letter to Nature*, Wood, V, Gwilliam, R, Rajandream, M-A *et al.*<super1>, **421**, 94
  - Srb10/Cdk8 regulates yeast filamentous growth by phosphorylating the transcription factor Ste12, *Letter to Nature*, Nelson, C, Goto, S, Lund, K, Hung, W, Sadowski, I, **421**, 187
  - Yeast genome duplication was followed by asynchronous differentiation of duplicated genes, *Letter to Nature*, Langkjaer, R B, Cliften, P F, Johnston, M, Piškur, J, **421**, 848
  - Engineering evolution to study speciation in yeasts, *Letter to Nature*, Delneri, D, Colson, I, Grammenoudi, S, Roberts, I N, Louis, E J, Oliver, S G, **422**, 68
  - Regulated degradation of a class V myosin receptor directs movement of the yeast vacuole, *Letter to Nature*, Tang, F, Kauffman, E J, Novak, J L, Nau, J J, Catlett, N L, Weisman, L S, **422**, 87
  - Dying cells dragged screaming under the microscope, *News*, Zandonella, C, **423**, 106
  - Molecular physiology: Tuned for longer life, *News and views*, Turner, R, **423**, 125
  - Genomics: Yeast rises again, *News and views*, Salzberg, S L, **423**, 233
  - Sequencing and comparison of yeast species to identify genes and regulatory elements, *Article*, Kellis, M, Pattrson, N, Endrizzi, M, Birren, B, Lander, E S, **423**, 241
  - Fission yeast mod5p regulates polarized growth through anchoring of tea1p at cell tips, *Letter to Nature*, Snaith, H A, Sawin, K E, **423**, 647
  - Functional proteomic identification of DNA replication proteins by induced proteolysis *in vivo*, *Article*, Kanemaki, M, Sanchez-Diaz, A, Gambus, A, Labib, K, **423**, 720
  - Cks1-dependent proteasome recruitment and activation of *CDC20* transcription in budding yeast, *Letter to Nature*, Morris, M C, Kaiser, P, Rudyak, S, Baskerville, C, Watson, M H, Reed, S I, **423**, 1009
  - Dosage sensitivity and the evolution of gene families in yeast, *Letter to Nature*, Papp, B, Pál, C, Hurst, L D, **424**, 194
  - Obituary: Ira Herskowitz (1946–2003), *News and views*, Johnson, A, Ptashne, M, **424**, 384
  - Cell biology: It's the old story of yeast, *News and views*, Marte, B, **425**, 472
  - Proteomics: Where's Waldo in yeast?, *News and views*, Wohlschlegel, J A, Yates, J R, **425**, 671
  - Global analysis of protein localization in budding yeast, *Article*, Huh, W-K, Falvo, J V, Gerke, L C, Carroll, A S, Howson, R W, Weissman, J S, O'Shea, E K, **425**, 686
  - Global analysis of protein expression in yeast, *Letter to Nature*, Ghaemmaghami, S, Huh, W-K, Bower, K, Howson, R W, Belle, A, Dephoure, N, O'Shea, E K, Weissman, J S, **425**, 737
- ***Yersinia pestis***, From red peril to red tape, *Opinion*, **423**, 669
  - Still out in the cold, *News feature*, Brumfiel, G, **423**, 678
  - Peers rally in support of accused scientist, *News*, Check, E, **425**, 5
  - Handle with care, *Opinion*, **426**, 1
- **Yip proteins**, Yip3 catalyses the dissociation of endosomal Rab-GDI complexes, *Letter to Nature*, Sivars, U, Alvazian, D, Pfeffer, S R, **425**, 856
- **Yosemite National Park (US)**, Zoologists prime traps for California wildlife survey, *News*, Knight, J, **424**, 987
- **young scientists**, Young guns shoot to the top in China's research revolution, *News*, Cyranoski, D, **425**, 113
  - Europe offers grants to young stars, *News*, Giles, J, **425**, 225
  - Four golden lessons, *Concepts*, Weinberg, S, **426**, 389
- **yttrium**, Zero thermal expansion in YbGaGe due to an electronic valence transition, *Letter to Nature*, Salvador, J R, Guo, F, Hogan, T, Kanatzidis, M G, **425**, 702

- **Z-machine**, High-voltage shock sparks fusion from X-ray crush, *News*, Brumfiel, G, **422**, 549
- **ZAP-70 gene**, Altered thymic T-cell selection due to a mutation of the ZAP-70 gene causes autoimmune arthritis in mice, *Letter to Nature*, Sakaguchi, N, Takahashi, T, Hata, H, Nomura, T, Tagami, T, Yamazaki, S, Sakihama, T, Matsutani, T, Negishi, I, Nakatsuru, S, Sakaguchi, S, **426**, 454
- **zebra finches**, Erratum: An ultra-sparse code underlies the generation of neural sequences in a songbird, *Letter to Nature*, Hahnloser, R H R, Kozhevnikov, A A, Fee, M S, **421**, 294
- **zebrafish**, A zebrafish homologue of the chemokine receptor *Cxcr4* is a germ-cell guidance receptor, *Letter to Nature*, Knaut, H, Werz, C, Geisler, R, Busch-Nentwich, E, Dahm, R, Frohnhofer, H-G, Geiger, H, Gilmour, D, Holley, S, Hooge, J, Julich, D, Maderspacher, F, Maischein, H-M, Neumann, C, Nicolson, T, Roehl, H, Schonberger, U, Seiler, C, Sollner, C, Sonawane, M, van Bebber, F, Wehner, A, Weiler, C, Erkert, P, Habeck, H, Hagner, U, Hennen Kaps, C E, Kirchner, A, Koblizek, T, Langheinrich, U, Loeschke, C, Metzger, C, Nordin, R, Odenthal, J, Pezzuti, M, Schlombs, K, deSantana-Stamm, J, Trowe, T, Vacun, G, Walderich, B, Walker, A, Weiler, C, Nusslein-Volhard, C, **421**, 279
  - Developmental biology: Fish in pinstripe suits, *News and views*, Heemels, M-T, **424**, 143
  - A tale of tails, *News and views*, Niehrs, C, **424**, 375
  - The molecular nature of the zebrafish tail organizer, *Letter to Nature*, Agathon, A, Thisse, C, Thisse, B, **424**, 448
- **Zeeman effect**, Solar physics: Heat exposure, *News and views*, Rosner, R, **425**, 672
- **ZEITLUPE**, Targeted degradation of TOC1 by ZTL modulates circadian function in *Arabidopsis thaliana*, *Letter to Nature*, MP, Kim, W-Y, Somers, D E, Kay, S A, **426**, 567
- **Zen gardens**, correction: Visual structure of a Japanese Zen garden, *Brief communication*, Van Tonder, G J, Lyons, M J, Ejima, Y, **421**, 230
- **zeolites**, Synthetic chemistry: Ship reverses out of bottle, *News and views*, Corma, A, **425**, 356
  - Biophysics: Cell mail delivered by light, *News and views*, Ball, P, **425**, 364
  - A combustion-free methodology for synthesizing zeolites and zeolite-like materials, *Letter to Nature*, Lee, H, Zones, S I, Davis, M E, **425**, 385
  - Synthetic design of crystalline inorganic chalcogenides exhibiting fast-ion conductivity, *Letter to Nature*, Zheng, N, Bu, X, Feng, P, **426**, 428
- **Zerhouni, Elias**, NIH 'roadmap' charts course to tackle big research issues, *News*, Check, E, **425**, 438
- **zero charge**, The 'zero charge' partitioning behaviour of noble gases during mantle melting, *Letter to Nature*, Brooker, R A, Du, Z, Blundy, J D, Kelley, S P, Allan, N L, Wood, B J, Chamorro, E M, Wartho, J-A, Purton, J A, **423**, 738
- **Zeus bugs**, Reversal of sex roles in nuptial feeding, *Brief communication*, Arnqvist, G, Jones, T M, Elgar, M A, **424**, 387
- **Zhang, Shuguang**, A questioning mind — Shuguang Zhang, *Lifelines*, **421**, 581
- **Zic2 protein**, Neurobiology: The eyes have it, *News and views*, Tromans, A, **425**, 143
- **zinc**, Biomaterials: Zinc hardens worm jaws, *News and views*, Ball, P, **424**, 630
  - Mineralogy: Oresome microbes, *News and views*, Ball, P, **425**, 573
- **zinc sulphide**, Water-driven structure transformation in nanoparticles at room temperature, *Letter to Nature*, Zhang, H, Gilbert, B, Huang, F, Banfield, J F, **424**, 1025
- **zinc-finger proteins**, Crystal structure of a zinc-finger-RNA complex reveals two modes of molecular recognition, *Letter to Nature*, Lu, D, Searles, A, Klug, A, **426**, 96
- **Zinkernagel, Rolf**, Nobel laureate slams misconduct smear, *News*, Schiermeier, Q, **421**, 773
- **zircons**, Geochemistry: Zircons and the early Earth, *News and views*, Lincoln, T, **421**, 331
- **zonal winds**, Outer planets: Origins of atmospheric zonal winds, *Brief communication*, Yano, J-I, Talagrand, O, Drossart, P, **421**, 36
- **zoology**, Visual zoology, *Science in Culture*, Abbott, A, **421**, 580
  - Zoologists prime traps for California wildlife survey, *News*, Knight, J, **424**, 987
  - Zoology: Light touch on the rudder, *News and views*, Lincoln, T, **425**, 360
- **zymogen**, Staphylocoagulase is a prototype for the mechanism of cofactor-induced zymogen activation, *Letter to Nature*, Friedrich, R, Panizzi, P, Fuentes-Prior, P, Richter, K, Verhamme, I, Anderson, P J, Kawabata, S-I, Huber, R, Bode, W, Bock, P E, **425**, 535

nature tells the story of life on earth

nature
Up in the air
50 years
nature
The human colonization of Australia
nature
African origins
Ethiopian fossils are the earliest Homo sapiens
nature
The earliest known hominid

- Four-winged dinosaurs from China
- The human colonization of Australia
- The pattern of human evolution: Ethiopian fossils are the earliest *Homo sapiens*
- Discovery of a new hominid from the upper Miocene of Chad, Central Africa

Ancient history. Always current, never forgotten.

For science read nature

Subscribe today

IK, EUR, ROW:
+44 (0)1256 302820
+44 (0)20 843 4998

USA:
t: +1- (800)-524-0384
f: +1- (212)- 695- 9591

nature publishing group npg

: subscriptions@nature.com

w: www.nature.com/nature/subscribe1

nature
Collision course
Hurricane force
Clutch control
Winds of change
Delta force
Against the grain
Viagra target
Is this the shape of the Universe?
One for all
Bristling with potential

nature